Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

December 3, 1956

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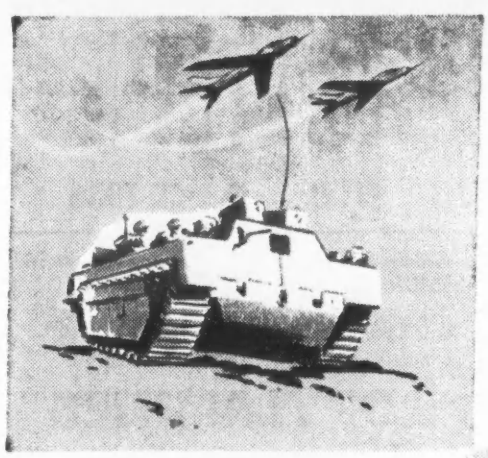

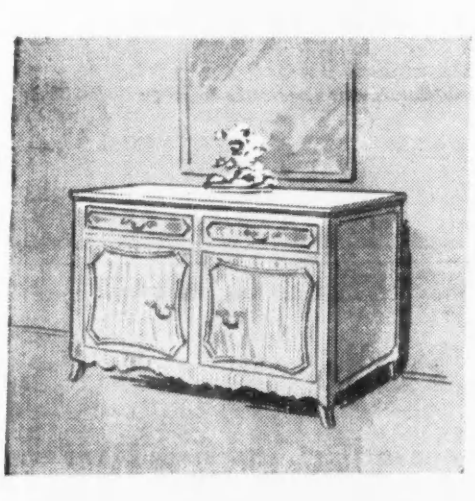

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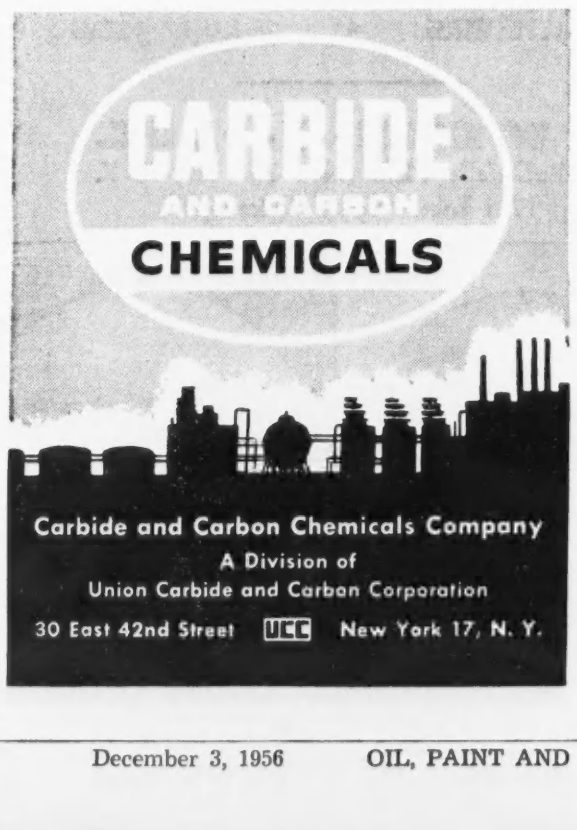

Oil, Paint and Drug Reporter

Vol. 170 No. 23 30 Church St., New York 7, N. Y. December 3, 1956

RESINS SALES CHIEF: Morton M. Gruber, sales manager of the resin department of Archer-Daniels-Midland Company and a noted figure in the resin field for over a quarter century, who has been named sales manager of surface coating resins for Reichhold Chemicals, Inc., White Plains, N. Y.

Aspirin Milestone Reached by Monsanto

Monsanto Chemical Company, St. Louis, Mo., last week produced its 100 millionth pound of acetylsalicylic acid (aspirin). The concern began making the material in 1917 upon expiration of the original Hoffmann patent (US 644077).

In 1912, the company bought a Swiss process for making pure acetylsalicylic acid in one operation. After testing out the process, Monsanto built an aspirin plant in 1916, and, the following year, produced and sold 2,368 pounds of the material.

After Friedrich Bayer & Co. lost its registered rights to the name aspirin in 1918, US chemical producers were in the business with both feet. In 1919, Monsanto's production rose to 480,874 pounds. Today it lays claim to being "the world's leading producer of aspirin."

At a day-long symposium in St. Louis marking its production of the 100 millionth pound, Monsanto pointed out that aspirin has become big business. Here are some of the retail sales figures for aspirin and aspirin compounds:

1955	$197,110,000
1954	163,890,000
1953	154,190,000

Last year, it was noted, aspirin ranked third in medical sales. Vitamins topped the list with $303 million, while cold remedies were second with $210 million.

Since 1940, it was reported, US aspirin

—Continued on page 51

Foote Mineral Purchases Grinding Facilities in N. H.

Purchase of ceramic grinding facilities at Cold River, N. H., has been announced by Foote Mineral Company. The Philadelphia firm will initiate a program of modernization immediately, and production of ceramic products is expected by the end of the year.

Reason behind the purchase, according to Foote, is to provide additional ceramic milling facilities, particularly for the production of whiteware grade petalite. Petalite is a lithium ore used widely in the ceramic and glass industries.

The mill was formerly the property of J. F. Morton, Inc., feldspar producer. Foote has also leased feldspar mining properties in the Cold River locality and plans to market feldspar products next year.

George B. Kneass, jr., formerly with Foote's Exton, Pa., plant, has been named plant manager. Mr. Kneass joined the company in 1951.

Chemical Industry's Horizon Bright With Sales, Output Peaks, Greene, of BDSA, Forecasts

New peaks are on the horizon for the chemical industry in sales and production for this year and possibly into the middle of next year. The expectation is that manufacturers' sales are going to hit a new high of close to $24 billion, exceeding last year's volume by almost a billion, or a bit more than 5 percent. That is the opinion of Dr. Udell T. Greene, director of the chemical and rubber division of the Business and Defense Services Administration, expressed last week in an address to the Chemical Bureau Alumni Association gathering in Washington.

Increased physical output of chemicals this year, he added, will probably be reflected by a record production index of 177 percent of the 1947-49 base period, meaning a production advance over last year's peak of about 6 percent.

Highest Book Value

The book value of chemical manufacturers' inventories, seasonally adjusted, has risen recently to the highest point in history, he noted, and at the end of August stood at more than $3.6 billion.

This represents only about a one and three-quarters months supply position, he said, and does not appear excessive since stocksales ratios in the chemical industry have often stood at two to one.

"Perhaps, because of scattered fears in the industry that there might be some sales slippage, does the inventory picture loom large," Dr. Greene said, "but in the light of present indicators, an extensive drop in sales does not seem likely."

Another peak in the chemical industry this year will be reached by expenditures on new plant and equipment, which are expected to total $1.5 billion, Dr. Greene noted.

This would represent a 48 percent advance over 1955 outlays and a 5 percent increase over the previous record in 1953. In comparison the 1956 capital outlays of all manufacturing industries combined are expected to show a 33 percent rise above the 1955 level.

"To me this means that chemical manufacturers are highly confident in both the short-term and long-term future volume of business, expanding as they have this year at a rate almost one-half greater than that shown by all manufacturing," Dr. Greene said.

"This surge in chemical spending for new plant and equipment has occurred despite

—Continued on page 71

CARBIDE VICE-PRESIDENT: R. K. Turner, a vice-president of Bakelite Company, who has been appointed a vice-president of Carbide & Carbon Chemicals Company, New York. Both firms are divisions of Union Carbide & Carbon Corporation.

Sulfur Dioxide Process To Be Promoted by 2 Firms

Stone & Webster Engineering Corporation and Thermal Research & Engineering Corporation will cooperate in the promotion of a high velocity combustion method developed by Stone & Webster for producing sulfur dioxide.

The joint undertaking, which should be of special interest to the paper industry and other sulfur users, will make use of the Thermal burner in the Stone & Webster high velocity sulfur combustion process.

For similar capacities, sulfur dioxide production units incorporating this advancement will be approximately one-twentieth the size of conventional type equipment.

Metal & Thermit Expansion Advances

Metal and Thermit Corporation, New York, has announced the completion of an operations center in Canada and the purchase of land in Carrollton, Ky., for the construction of a new chemical processing plant.

The Canadian facility, built for Metal & Thermit-United Chromium of Canada, Ltd., is located in the Highbury area of Etobicoke township in northwestern Toronto. Products to be manufactured there will include chromium, copper and nickel plating materials, liquid dips, organic protective coatings and thermit welding compounds. Warehouse stocks of other Metal & Thermit products will also be carried at that location.

Production equipment is being installed and manufacturing operations will be in full swing by the end of December.

The installation in Kentucky, on which

—Continued on page 71

Salk Standards Modified

Standards for poliomyelitis vaccine announced earlier this year by the Public Health Service were modified in several respects last week by the agency. The changes will make it no longer necessary to utilize part of the test for potency of the product as a supplemental test for its safety, and will clarify the required expiration date for the product.

Drug Purchase Policy Criticized In Aid Program

A protest has been registered with the General Services Administration and the International Cooperation Administration against the policy being followed in the awarding of contracts for purchase of pharmaceuticals under the mutual aid program.

As matters now stand, it was claimed, the policy is almost an open invitation to foreign pharmaceutical producers to pirate American patented products, and to undercut domestic antibiotics suppliers by not having to meet the same certification requirements of the American producers.

The American Drug Manufacturers Association called attention to the situation in a bulletin to its members last week, having reference to an outstanding invitation for bids issued by GSA on behalf of ICA, for purchase of certain drugs for shipment to Vietnam. The bid invitation was issued on November 16 and will remain open until December 12.

Difference in Requirements

The invitation states that the antibotics and other drugs supplied by United States manufacturers must comply with all USP and other specifications, including certification. Foreign bidders, on the other hand, need only furnish a "certification to be issued by a government agency of that country similar in standing to that of the United States Food and Drug Administration."

Karl Bambach, executive vice-president of the ADMA, said that "since there is no agency of a foreign government equipped to certify antibiotics in a manner similar to the Food and Drug Administration, the GSA not only nullifies its own requirements for the product, but places American manufacturers in a most disadvantageous position in the bidding."

He added that there is a possible threat to patent rights in the situation similar to that which came up in 1953 when the Foreign Operations Administration, predecessor to the ICA, was handling the mutual aid program. Purchase of pharmaceuticals on a worldwide basis by GSA for the FOA sometimes included products which were product patents of American manufacturers or were covered by process patents owned by United States nationals. Since contracting officers could not ordinarily be aware of the patents rights infringements could unknowingly occur.

When the situation was brought to the

—Continued on page 70

Fermentation Expansion Is Projected by Eli Lilly

A $2 million increase in fermentation facilities at the Eli Lilly & Co. Tippecanoe laboratories, near Lafayette, Ind., has been approved by the firm's board of directors.

The expansion program will boost fermentation capacity there by 50 percent. Additional 18,000 gallon fermenters will be set into the ground in a new wing on the present fermentation building, where Lilly manufactures antibiotics.

Engineering work on the project has already started, and construction is expected to get under way early next summer. Among antibiotics being manufactured by Lilly at Tippecanoe laboratories are erythromycin and penicillin V.

Soap, Detergent Sales Up in First 9 Months

Soaps and synthetic detergents tonnage sales for the first nine months of 1956 registered a 9 percent increase over sales for the comparable period last year. The Association of American Soap and Glycerine Producers has reported total soap and synthetic detergent sales of 3,053,796,000 pounds, valued at $702,203,000 as compared with 2,804,005,000 pounds and $656,649,000 for nine months in 1955.

Total sales of synthetic detergents for the first nine months of 1956, representing 6 percent of the market, amounted to 2,064,507,000 pounds with a dollar value of $460,640,000. This is a tonnage increase over 1955 of 18.2 percent and in dollars of 13.1 percent.

USI Takes Option on Hafnium-Separating Process

U. S. Industrial Chemicals Company, New York, a division of National Distillers Products Corporation, has taken an exclusive option on a process for separating hafnium from zirconium chloride, developed by Commonwealth Scientific & Industrial Research Organization of Australia.

Hafnium is an element closely associated with zirconium that renders zirconium metal unsatisfactory for use in certain types of atomic reactor construction.

According to Dr. Robert E. Hulse, National Distillers vice-president in charge of chemical activities, the process now is in pilot plant stage at the company's Cincinnati, Ohio, research laboratories. If it proves commercially feasible, USI plans to exercise the option to buy world-wide patent rights, excluding only Australia.

The Australian process reduces considerably the cost of separating hafnium from zirconium by eliminating the extraction step inherent in current and projected commercial production. It will be far less expensive than other methods which rely on a series of chemical steps to remove the unwanted element, USI said.

The company added that it expects to complete by July, 1957, its 2 million-pound-per-year plant which will produce reactor grade zirconium sponge. Initially this plant will use the conventional separation method but this will be superceded by the new method when demonstrated. USI will sell zirconium for $7 per pound on spot basis and at lower prices to contract customers as compared with the present price of $14 and up. When the new process is installed there will be a further reduction in price, it was said.

The multi-million-dollar plant will be located on the site of USI's sodium and chlorine plant at Ashtabula, Ohio, and will

—Continued on page 71

Weeks Reveals Administration Will Make Another Try for OTC

The administration plans to make another try next session at getting congressional approval of the proposed Organization for Trade Cooperation. This is the word from Secretary of Commerce Sinclair Weeks, who last week told the forty-third National Foreign Trade Convention in New York that the government feels OTC is the most effective way to administer the General Agreement on Tariffs and Trade. A bill aimed at sanctioning OTC died last session in the house rules committee.

DEVELOPMENT MANAGER: E. C. Slaght, jr., appointed manager of the market development of Heyden Chemical Corporation, New York.

Mr. Weeks went on to urge a moderate approach to the foreign trade question. Either extreme, he said, will do the program "no good." Unless the two extremes are avoided, he continued, the results are likely to be disappointing. Disappointing, that is, to advocates of a liberal policy.

Some of the Dire Consequences Seen

For instance, the secretary suggested, congress might fail to renew legislation authorizing new reciprocal trade agreements. A three-year extension of this legislation last year expires in 1958. Or, he said, congress might take "a backward step in trade relations" by enacting further quotas on imports.

In obvious reference to Egypt's seizure of the Suez Canal, the chairman of Socony Mobil Oil Company, New York, declared that nations must recognize the sanctity of contracts. The Suez Canal Company's concession had another dozen years to run when nationalization was invoked by President Nasser last July 26.

"If a sovereign government makes a contract," B. Brewster Jennings declared, "no invoking of nationalization can make its unilateral breaching of that contract a moral act.

"The ability to make a binding contract should be cherished by nations, as it is by individuals, among whom it is a mark of maturity. The more this is recognized, the more international trade and investment will flourish and the greater will be

—Continued on page 70

Socony Unit Set Up For Petrochem Sales

Socony Mobil Oil Company, New York, has set up a petroleum chemicals department. The new unit will act as a clearing house for activities in the petroleum chemical field in which the company already engages.

In addition, the department will be responsible for the sale of the company's chemical products, and will initiate market research studies, recommend laboratory research programs, and make continuing evaluation of opportunities in manufacturing and marketing related to petroleum chemicals.

Chosen to head the newly established department is P. W. Judah, manager of Socony's lubricating department since 1952. Mr. Judah joined the company in 1932.

Eagle-Picher Buys Firm

Eagle-Picher Company, Cincinnati, Ohio, has purchased for cash all the assets and properties of Chicago Vitreous Corporation, and its affiliate, Lusterlite Corporation. Chicago Vitreous is a producer of porcelain enameling frits, and porcelain enamel steel panels for gasoline service station buildings which are erected by Lusterlite.

Phosphate Products Prices Are Raised by Monsanto

Price increases on several of the sodium and calcium phosphates ranging from 25 to 30 cents per hundred weight have been announced by Monsanto Chemical Company, St. Louis, Mo.

All of the price increases will be effective January 1. Increased raw material prices during 1956, particularly for lime and soda ash going into the manufacture of the calcium or sodium phosphates, as well as rising labor costs, were cited as principal factors in bringing about the increases.

Products affected by the increases include dicalcium phosphate dihydrate and disodium phosphate dihydrate, each boosted 25 cents per hundredweight. Dicalcium phosphate anhydrous and calcium pyrophosphate raised 30 cents per hundred weight.

As an example of the price boosts, dentifrice grade dicalcium phosphate dihydrate will be $7.85 per hundredweight in carload amounts, compared with the previous price of $7.60. Food grade dicalcium phosphate anhydrous will be $9.30 per hundred pounds in carload quantities, compared with the previous $9 price.

The Week's Price Changes

Gallic Acid, Mercury, Molasses at New Orleans Advance. Para-Dichlorobenzene, Cedarwood Oil, Argentine Casein Off.

Prices Advanced

Acid, gallic, NF, 20c. per lb. (p. 49).
tech., base price, 20c. per lb. (p. 42).
Linseed, 3 10c. per lb. (p. 64).
Cocoa butter, 4c. per lb. (p. 64).
Copra, $5 per ton (p. 64).
Greases, ¼c. per lb. (p. 64).
Lard, ¼c. per lb. (p. 64).
Mercury, $2 per flk. (p. 38).
Molasses, New Orleans, 1c. per gal. (p. 42).
Oil, castor, dom., 1c. per lb. (p. 64).
Sulfonated, ¾c. to 1c. per lb. (p. 57).
No. 1, tech., 1½c. per lb. (p.64).
Brazilian, No. 1, 1½c. per lb. (p. 64).
Chenopodium, 25c. per lb. (p. 55).
Citronella, Formosan, 15c. per lb. (p. 55).
Coconut, crude, ½c per lb. (p. 64).
Corn, crude, ⅛c. per lb. (p. 64).
refd., ⅛c. per lb
Cottonseed, crude, ⅜c. per lb. (p. 64).
refd., ⅜c. per lb
Lime, 25c. per lb. (p. 55).
Linseed, 3 10c. per lb. (p. 64).
Menhaden, crude, ½c. per lb. (p. 64).
Oleo, 1c. per lb. (p. 64).
Palm, tankcars, 7 20c. per lb. (p. 64).
Patchouli, 50c per lb. (p. 55).
Peanut, crude, 1c. per lb. (p. 64).
refd., 1c. per lb.
Peppermint, redist., 5c. per lb. (p. 55).
Sandalwood, 15c. per lb. (p. 55).
Oil, soybean, crude, ⅜c. per lb. (p. 64).
refd., ⅜c. per lb.
Spearmint, 30c. per lb. (p. 55).
Oleo stearine, 2½c. per lb. (p. 64).
Tankage, Chicago, 25c. per unit-ton (p. 45).

Prices Reduced

Blood, Chicago, 25c. per unit-ton (p. 45).
Casein, imp., Arg., 1½c. per lb. (p. 58).
p-Dichlorobenzene, 2½c. per lb. (p. 45).
Linseed meal, $1 per ton (p. 64).
Oil, cedarwood, 10c. per lb. (p. 55).
Sage, Dalmatian, 20c. per lb. (p. 55).
Vetiver, Haitian, 35c. per lb. (p. 55).
Tankage, New York, 25c. per unit-ton (p. 45).
Tin, 1¾c. per lb. (p. 38).
Salts, 4 10c. to 6 10c. per lb. (p. 38).
Wax, carnauba, chalky, 1c. per lb. (p. 64).
No. 3, crude, Ceara, 1c. per lb.
Parnahyba, 1c. per lb.

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

Nov. 30, 1956	Nov. 23, 1956	Dec. 2, 1955
109.62	109.60	107.17

Piperazine Offered in Tankcars

Piperazine is now commercially available in a new, easy-to-handle form, according to an announcement by W. A. Woodcock, manager of the fine chemicals division of Carbide & Carbon Chemicals Company, New York, a division of Union Carbide & Carbon Corporation. Ordinarily, piperazine is a high melting (106° Centigrade) solid that is quite hygroscopic and requires great care in handling. With its availability from Carbide as a liquid in heated tank cars, manufacturers of anthelmintic salts will be able to work with a new grade of piperazine designated as "piperazine, technical."

"It is a eutectic mixture containing about 40 percent water. It melts at about 35°C. and can be supplied in tank cars or tank wagons equipped with heating coils. It is also shipped in fifty-five gallon drums. Piperazine technical can be easily melted in a heated room or steam bath, according to carbide.

"Piperazine technical should prove to be particularly suited to the manufacture of salts sold as anthelmintics," said Mr. Woodcock.

Carbide does not manufacture or sell piperazine salts for use as anthelmintics. It is a supplier of piperazine for their manufacture.

RESEARCH VICE-PRESIDENT: Dr. Valdemar H. Madis, elected vice-president in charge of research, production and quality control of Meer Corporation, New York botanical drug firm.

'Freon' Propellant Shipped From duPont California Unit

The first bulk shipment of west coast produced "Freon" propellant will be delivered from its new multi-million dollar plant at Antioch, Calif., December 11 by E. I. duPont de Nemours & Co. The material will go to a Los Angeles firm which will use it as the pressure producing agent in household aerosol products.

Representing the first large quantity of liquefied gas turned out by the plant, the 37,000-pound shipment will contain enough propellant for 185,000 containers of a typical six-ounce aerosol hair spray.

Acetate Film Increased

E. I. duPont de Nemours & Co., Wilmington, Del., has increased prices of acetate film 3 cents a pound. Higher manufacturing and raw materials costs motivated the increase, duPont said.

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SD Lifts Lid Part Way

Scientific Design Company, New York, last week filled in some of the background behind the $10 million aromatics plant Standard Oil Company (Indiana), Chicago, intends to build somewhere in the midwest.

Indiana Standard revealed two weeks ago that it plans to put up a 60-million-pound facility for the manufacture of phthalic anhydride, isophthalic acid, terephthalic acid, dimethyl terephthalate, dimethyl isophthalate and benzoic acid (OPD, 11/19/56).

The new unit, which will be operated by Amoco Chemicals Corporation, an Indiana Standard affiliate due to come into existence on January 1, will employ a new hydrocarbon oxidation process developed by SD. The New York firm has been engaged to design the Amoco plant.

World-wide rights to the Scientific Design process have been acquired by Indiana Standard, and SD has been named its agent. Pechiney, the French chemical giant, has already been licensed to use the process abroad and another unnamed foreign licensee has also been signed.

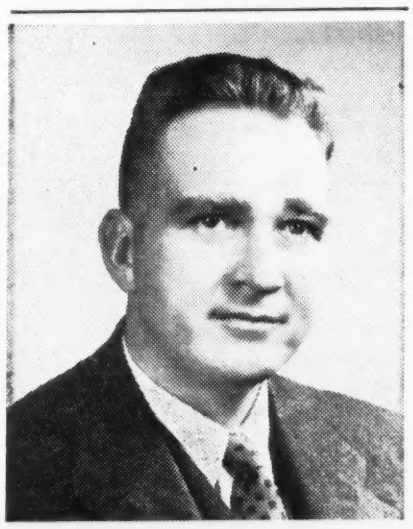
According to Harry A. Rehnberg, SD president, the process makes possible the upgrading of xylenes, a feedstock available in almost unlimited supply to Indiana Standard and licensees abroad. He added that the process was developed by Scientific Design with its own funds.

Dr. Ralph Landau, executive vice-president of Scientific Design, reported that the process involves liquid-phase oxidation of "various aromatics, including the xylenes, simply and directly with air to their respective dibasic acids."

He also revealed that SD had originally planned to manufacture chemical products using the new technic, but decided to sell out 100 percent to Indiana Standard because that firm could best manage the fullest exploitation of the process by itself.

Rosin Prices Expected to Hold, Turpentine Thought Likely to Rise

The Department of Agriculture expects prices for rosin to stay close to present levels through the remainder of this year and well into 1957. However, any prolonged interruption of shipping through the Suez Canal may curtail and increase the cost of rosin shipments from China and exert upward pressure on prices. Turpentine prices are likely to rise before the advent of the new gum crop next April 1. These comments on the naval stores situation were expressed by the department in its annual outlook issue of the "Demand and Price Situation" on agricultural products for 1957 in which the department sees a further strengthening of agriculture next year with a continued high level of demand for farm products and an increase in farm income.



USI SALES MANAGER: Warren E. Johnson, appointed manager of alcohol and chemical sales for U. S. Industrial Chemicals Company, a division of National Distillers Products Corporation, New York.

"Domestic production of rosin and turpentine is expected to increase slightly this year," it was stated. "Increased production of tall oil rosin and sulfate wood turpentine should more than offset lower output of gum and steam distilled wood rosin and turpentine.

"However, because of lower carry-in stocks on April 1, 1956, as compared with a year earlier, total domestic supplies of both rosin and turpentine are expected to be about the same.

"For the future, supplies appear to be ample. Both the gum naval stores and the sulfate pulp industries possess the growth potential to more than offset reduced output of the steam distilled wood naval stores industry which is faced with

—*Continued on page 59*

Great Lakes in Pact With British Concerns

Great Lakes Carbon Corporation, New York, through its electrode division, has announced the organization of Anglo-Great Lakes Corporation, Ltd., for the production in England of nuclear and commercial graphite. British companies joining in the enterprise are C. A. Parsons & Co., Ltd.; A. Reyrolle & Co., Ltd.;

—*Continued on page 61*

Hooker, Oldbury Merger Approved by Stockholders

Stockholders of Hooker Electrochemical Company, Niagara Falls, N. Y., and Oldbury Electro-Chemical Company, New York, have approved consolidation of Oldbury into Hooker.

The consolidation became effective Friday upon filing a certificate of consolidation in New York State's Department of State at Albany. For the present, Oldbury will be operated as a division of Hooker.

The new board will consist of the present thirteen Hooker directors plus Dr. Earl L. Whitford, formerly president of Oldbury, who became a director by stockholder vote.

Chemicals Prices Rise Less Than Those in Other Industries; 'Severe Competition' the Cause

"Much more severe competition" in the chemical industry is said by the government to be holding wholesale price increases for the year to about 7 percent, as compared to approximately 22 percent for all other products except farm and food. In analyzing the trend, using 1947-49 as the base period, the Business and Defense Services Administration's chemical and rubber division said the advance was smaller than in most industries "despite the heavy pressures of a narrowing price-cost squeeze."

The data was presented in the November "Chemical and Rubber Industry Report" of BDSA and added that increased labor and raw material costs as well as advancing capital equipment and research charges have been largely absorbed in the chemical industry over the past several years through operational and administrative economies and increased productivity.

Here are the short term price trends for some of the groups:

Industrial Chemicals—By September wholesale prices had advanced 2 percent over levels in effect at the close of 1955, with more of the increase attributable to organic than to inorganic chemicals.

Essential Oils—The 7 percent price drop since the end of 1955 appears to be largely the result of insufficient demand for current ample supplies, recently augmented by the arrival of new distillation crops.

Paint—Prices of prepared material were up almost 3 percent since December, 1955, chiefly due to continued large usage in expanding construction activity and extensive consumption by the "do-it-yourself" movement.

Fats and Oils—A 2 percent decline in inedible material seems to represent a continuation of the 45 percent fall since the 1947-49 base period. A sharp drop in usage by the soap industry and in paint materials was primarily responsible for the oversupply. The decline in soap-making was a prime factor and expanding use of emulsion-type paints was a contributing cause.

Drug and Pharmaceutical Materials—A 4 percent drop since the end of 1955 represents a continuation of the 51 percent decline since the 1947-49 base. Mass production technics, intense competition and

—*Continued on page 54*

DEVELOPMENT DIRECTOR: Dr. Frank P. Greenspan, former manager of organic research and development of the Becco Chemical Division, Food Machinery & Chemical Corporation, who has been named director of development of FMC's new organic chemicals division.

Titanium Capacity in 1957 Is Seen Meeting Gov't Needs

The expanding United States titanium industry will be able to meet anticipated increased requirements of defense contractors next year and in succeeding years, the titanium producers and fabricators industry advisory committee has reported.

The committee estimated that titanium melting capacity at the end of 1957 will be sufficient to produce ingots at a rate necessary to meet requirements.

Currently the forms and shapes of titanium mill products being produced are rolled or extruded for the most part on equipment that also is capable of rolling or extruding steel products. Committee spokesmen voiced the belief that such equipment can take care of the needs of defense contractors.

Bioflavonoids Markets Are Expanded by Freeman

Freeman Industries, Inc., Tuckahoe, N. Y., is expanding its marketing of bioflavonoids, begun last year.

Hesperidin, the most prevalent of the bioflavonoids in oranges and lemons, is offered by Freeman in both its purified and complex forms.

Neoprene Unit Site Taken in N. Ireland

DuPont Company (United Kingdom), Ltd., has announced that it has taken options on a 381-acre tract near Londonderry, North Ireland, as the prospective site for a neoprene synthetic rubber plant.

The site is located four miles northeast of Londonderry and fifty-five miles northwest of Belfast. Two waterways adjoin the property, the river Foyle on the north and the river Faughn on the east. A major portion of the acreage was the former Maydown airdrome, a military flying field during World War II.

The company stated that start of plant construction in early 1957 was contemplated, assuming successful completion of engineering and economic studies now under way.

The establishment of DuPont Company (United Kingdom), Ltd., was announced last April. It has been providing herbicides of British manufacture for the British market.

Kramer Chemicals Set Up, Executive Staff Is Selected

Kramer Chemicals, Inc., has been formed as a distributor of heavy chemicals in Fair Lawn, N. J., with W. J. Kramer as president. G. W. Kramer has been named vice-president and John Fedus has been named vice-president in charge of sales. Members of the sales division include A. Weber, A. E. Schmidt, and J. Wichterman.

Witco Buys Assets Of Ultra Chemical

Witco Chemical Company, New York, has acquired all of the outstanding stock of Ultra Chemical Works, Inc., Paterson, N. J. The transaction was affected through an exchange of stock.

Ultra will now operate as a wholly-owned division of Witco with no change in personnel.

Ultra's main plant is in Paterson, and additional manufacturing facilities are maintained in Joliet and Chicago, Ill., and Hawthorne, Calif.

Saline Water Conversion Being Boosted by Gov't

Government researchers are gradually licking the economic problems concerning the conversion of saline waters to fresh water through utilization of solar energy.

In a progress report on solar distillation of salt water, Secretary of the Interior Fred A. Seaton said last week that research conducted by the department's office of saline water since 1953 have shown that the use of heat from the sun to distill salt water has promise of economical large-scale fresh production.

This is particularly true in the southwest, where solar intensities are high, provided that simple stills can be made cheaply enough or if the productive capacity of stills could be greatly increased or both.

One means of increasing output is by multiple-effect distillation in which the heat absorbed in evaporation is recaptured in condensation and made to evaporate additional water, according to David S. Jenkins, director of the office of saline water.

Dr. Maria Telkes of New York University, working under a contract with the department, has developed a ten-effect solar still based on an earlier patent by Dr. Defoe Ginnings of the Bureau of Standards. The device requires no expensive mechanical equipment, and from a given area exposed to sunshine can produce about six times as much fresh water as a single still.

The principle can be used also with other forms of low-grade heat. Dr. Telkes has also been developing an improved tilted single-stage solar still for the department. Larger units and field testing now are needed on both.

A possible way to reduce costs is to use

—*Continued on page 71*

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ALKATERGES delay drying of film in a drying oil. Reported to reduce gum formation in a hydraulic oil system. Aid cleaning of a dirty system.

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ACID ACCEPTORS

Since most of their salts are somewhat oil soluble, ALKATERGES can be used to tie up acidity from deterioration of oils or of additives. Useful also as perspiration acid neutralizers in corrosion preventive oils.

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Association Meetings

Air Pollution Control Association, semi-annual meeting, Rice hotel, Houston, Tex., December 3-5.

Chemical Specialties Manufacturers Association, annual meeting, Mayflower hotel, Washington, D. C., December 3-5.

National Drug Trade Conference, annual meeting, Gramercy Park hotel, New York, December 3.

Synthetic Organic Chemical Manufacturers Association, annual meeting and dinner, Biltmore hotel, New York, December 3.

American Drug Manufacturers Association, annual meeting, El Mirador hotel, Palm Springs, Calif., April 22-25.

American Institute of Chemical Engineers, annual meeting, Statler hotel, Boston, December 9-12.

American Pharmaceutical Manufacturers' Association, midyear and eastern section meeting, Waldorf-Astoria hotel, New York, December 10-12; central section meeting, Edgewater Beach hotel, Chicago, February 11-13; western section meeting, Ambassador hotel, Los Angeles, February 18-19.

Association of American Soap and Glycerine Producers, annual convention, Waldorf-Astoria hotel, New York, January 23-25.

Chemical Buyers' Group, National Association of Purchasing Agents, midwinter meeting, western division, Congress hotel, Chicago, January 24; eastern meeting, Commodore hotel, New York, January 29.

Chemical Market Research Association, Sheraton hotel, Philadelphia, February 19-20.

Commercial Chemical Development Association, plastics meeting, Statler hotel, New York, March 27-28; resort meeting, French Lick, Ind., May 13-14.

Drug, Chemical and Allied Trades section of New York Board of Trade, annual dinner, Waldorf-Astoria hotel, New York, March 7; annual meeting, Galen Hall, Wernersville, Pa., September 19-21.

Essential Oil Association, annual meeting and dinner, Savoy Plaza hotel, New York, January 4.

Federal Wholesale Druggists' Association, midyear meeting, Statler hotel, New York, March 7-9.

Federation of Paint and Varnish Production Clubs, annual convention, Bellevue-Stratford hotel, Philadelphia, October 30-November 2.

National Agricultural Chemicals Association, spring meeting, Fairmont hotel, San Francisco, March 6-8.

National Industrial Conference Board, fifth conference on atomic energy, Benjamin Franklin hotel, Convention Hall, Philadelphia, March 14-15.

National Paint, Varnish and Lacquer Association, annual convention, Sheraton-Park and Shoreham hotels, Washington, D. C., November 4-6.

National Plant Food Council, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 9-13.

Nuclear Congress, Convention Hall, Philadelphia, March 11-15.

Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Penn-Sheraton hotel, Pittsburgh, Pa., March 4-8.

Proprietary Association, winter meeting, Waldorf-Astoria hotel, New York, December 10-12.

Salesmen's Association of the American Chemical Industry, Christmas party, Waldorf-Astoria hotel, New York, December 12.

Society of Plastics Engineers, annual technical conference, Sheraton-Jefferson hotel, St. Louis, Mo., January 16-18.

Society of Plastics Industry, annual conference and Pacific Coast plastics exposition, Shrine Exposition Hall, Los Angeles, March 18-21.

Toilet Goods Association, scientific section, Waldorf-Astoria hotel, New York, December 12.

Pharmaceutical Industry's Role Between Research and Consumer Will Highlight APMA Meeting

The role of the pharmaceutical industry in bridging the gap between laboratory research and the consumer will be highlighted at the American Pharmaceutical Manufacturers' Association's fiftieth annual mid-year meeting, to be held December 10-12, at the Waldorf-Astoria hotel, New York. As one of the highlights of the meeting, Dr. William Gordon Lennox, long a leader in the field of neurological research and a recognized authority in the study and adaptation of psychotherapeutic agents to treat mental illness, will receive the association's 1956 Scientific Award at the banquet, scheduled for December 11, in the hotel's grand ballroom.

The award will be made to Dr. Lennox in recognition of his research which has contributed substantially to gains in treating mental diseases with drugs. Dr. Lennox is associate professor emeritus in neurology at Harvard University Medical School.

Listing of Events

The three-day program follows:

Monday morning, December 10—Leonard J. Robbins, a partner of Langner, Parry, Card & Langner, "The American Pharmaceutical Manufacturer and Foreign Patents—Present Problems and Future Trends," and W. R. Herod, president, International General Electric Company, "Foreign Economic Growth and International Trade." Conger Reynolds, director, Office of Public Information, United States Information Agency, will show a film, "Responsibilities of the US Businessman Abroad."

Monday afternoon—Arno H. Johnson, vice-president and director of research, J. Walter Thompson Company, "The Pharmaceutical Industry in Tomorrow's Market"; William Oncken, jr., director of management development, New York Central System, "Crashing the Communications Barrier Between You and Your Staff," and Charles H. Clark, public relations department, Ethyl Corporation, "How to Get Ideas When You Need Them."

Tuesday morning, December 11—E. L. Baab, corporate training manager, Olin Mathieson Chemical Corporation, "Supervisor Development"; Dr. M. A. Brumbaugh, Bristol Laboratories, "Application of Statistics to Pharmaceutical Manufacturing," and Charles F. Hautaud, president, Hautaud Engineering Company, "Applica-

—Continued on page 53

HONORED BY FRENCH: Lawrence H. Flett, former director of new products and now consultant to National Aniline Division, Allied Chemical & Dye Corporation, who last week was made an honorary member of Societe de Chimie Industrielle, France's main chemical industry society.

Food Fats, Oils Supply Seen Up to Last Year's Record Level

The total supply of food fats and oils for the 1956-57 year will be about the same as last year's record level, marketing experts of the Department of Agriculture predicted last week at the annual Agricultural Outlook Conference. Although carryover stocks on October 1 were smaller than a year ago, this loss can be expected to be offset by increased output during the marketing year. It was also forecast that exports will continue at a relatively high level.

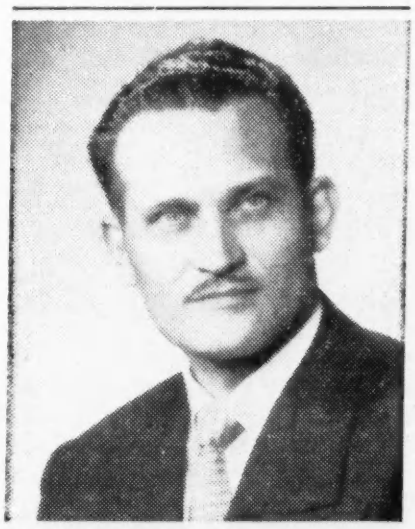
In fact, with foreign countries continuing to need substantial quantities of food fats and oils, exports may be as large as the record 2.7 billion pounds for the year just ended, it was stated. However, if the crisis in the Near East should be prolonged, export demand for United States fats and oils could strengthen further.

The longer term (five years) outlook for food fats and oils points to a possible expansion of United States production at a greater than the increase in domestic use, the report said. Production could possibly increase as much as 15 percent from 1956 to 1961 while total domestic use will likely increase only about 7 to 8 percent.

Under these circumstances, foreign markets would become even more important as an outlet for United States fats and oils, and on the basis of its recent share of the world trade, the United States should be able to market this increased output abroad, it was pointed out.

The 1956 crop of soybeans is estimated at a record 457 million bushels, 86 million

—Continued on page 66



HEADS DRUG GROUP: Glenn H. Reinier, director of purchasing for Abbott Laboratories, North Chicago, Ill., who has been elected president of the Chicago Drug and Chemical Association.

SOCMA to Hear McKeen

John E. McKeen, president and chairman of the board of Chas. Pfizer & Co., Brooklyn, N. Y., will speak on "Outlook for the Chemical and Pharmaceutical Industry in 1957" at the thirty-fifth annual meeting and dinner of the Synthetic Organic Chemical Manufacturers Association at the Biltmore hotel, New York, tonight.

Columbian Carbon Man Will Get English Medal

The Institution of the Rubber Industry (London) has unanimously awarded the Colwyn Medal for 1956 to W. B. Wiegand of Columbian Carbon Company, New York.

The Colwyn Medal is the institution's highest honor "awarded for conspicuous services of a scientific or technical character having an important bearing on the rubber industry."

The medal is awarded Mr. Wiegand in recognition of his outstanding work on carbon black spanning more than three decades. The presentation will be made in this country at a date and place to be announced.

Sulfur Permit Regulations Detailed by Interior Dep't

Requirements and procedures governing sulfur permits and leases were spelled out in greater detail last week in revised regulations issued by the Department of the Interior.

The new regulations are patterned after the potash and sodium regulations of the department and apply to public lands in New Mexico and Louisiana and to acquired lands in any state where sulfur is found.

CSMA Elects New President This Week

Chemical Specialties Manufacturers Association will elect a new president this week to succeed Dr. E. G. Klarmann, vice-president of Lehn & Fink Products Corporation, New York.

The election will take place at CSMA's forty-third annual meeting, which gets under way today and continues through Wednesday at the Mayflower hotel, Washington, D. C.

A feature of the three-day conclave will be the association's fifth annual aerosol festival. Presentation of awards for the best aerosol packages will be made at the luncheon tomorrow.

Another highlight of the December 4 luncheon will be the presentation of CSMA's achievement award for 1956. This year's winner is Dr. George F. Reddish of Lambert-Hudnut Division, Warner-Lambert Pharmaceutical Company, St. Louis, Mo., who is being cited for his work

—Continued on page 44

APMA Meeting to Be Held On Proposed ADMA Merger

Dr. Robert K. Cutter, president of the American Pharmaceutical Manufacturers' Association, has called a meeting of the entire membership for December 10 to discuss the proposed merger of APMA and the American Drug Manufacturers Association.

The purpose of the meeting will be to report on negotiations. It is not expected that any final draft of a proposed constitution or by-laws will be ready at that time. The meeting will be held in the Waldorf-Astoria hotel immediately following the APMA midwinter afternoon meeting. It will be closed to all but APMA active, associate or affiliate members.

Fluorspar Reserves Are 22.5 Million Tons

The present fluorspar reserves in the United States are estimated to total about 22.5 million short tons, according to estimates made for the Office of Minerals Mobilization by the Geological Survey.

The reserves are estimated to contain 35 or more percent CaF_2 (calcium fluoride) or the equivalent value in combined fluorspar and metallic sulfides. For example, ores containing as little as 26 percent CaF_2 with 3 percent zinc are the equivalent of 35 percent CaF_2 at present market prices, and some producers in the

—Continued on page 71

Fertilizers Dropping—Other Farm Costs Going Up

Fertilizers are one element of farm costs which should present no great problem to growers for the next few years, in the opinion of government economists.

While prices of all other items which go to make up the cost of farming, such as labor, machinery, feed, real estate and taxes, are likely to continue upward, the experts look for prices paid for fertilizer per pound of plant nutrients to continue downward.

In a special report on farm costs presented to the annual Outlook Conference held by the Department of Agriculture last week, it was noted that average prices paid by farmers for fertilizer during 1956 remained at about the 1955, level or about 6 percent above prices paid in 1947-49, and somewhat lower than prices paid in 1951, 1952, and 1953.

This is in contrast with some of the other important elements of farm costs, such as farm machinery prices up 40 percent from the 1947-49 average, motor vehicle prices up 31 percent, farm wage rates up 28 percent, and farm real estate taxes per acre up 56 percent.

In the substitution of one resource for another which has typified agriculture since the thirties—tractors, trucks, and other farm machinery for horse and mule power and human farm labor—the experts advocate greater consideration of the use of fertilizer because of its favorable price relationship to other costs.

"The price of fertilizer has not increased as much as prices of other in-

—Continued on page 62

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'ROCHE'

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Fine Granular	Superfine Granular	Ampul Type
Sodium Ascorbate	Coated Ascorbic Acid 97.5%	

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CHEMICALS AND RELATED MATERIALS

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, November 30 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Acacia (see Gum arabic).
Acenaphthene below 92.5 C., m.p., dms., works lb. .40 - —
above 92.5 C., m.p., bbls., dms., lb. .41 - .50
Acetaldehyde 99%, dms., c.l., divd. lb. .12 - —
t.c.l., divd lb. .13½- —
tanks, divd lb. .10 - —
Acetaldol (see Aldol).
Acetanilide tech. flaked, bbls., bgs., c.l., frt. alld lb. .30½- —
ton lots lb. .31½- —
smaller lots lb. .34½- —
USP, bbls., 2,000-lb. lots lb. .79 - —
smaller lots lb. .80 - .81
Acetic anhydride dms., c.l., divd E. lb. .16½- —
t.c.l., divd. E lb. .17 - —
tanks divd. E lb. .14 - —
Acetoacetanilide, fib. dms., c.l., divd lb. .80 - —
t.c.l., divd lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., divd 1.35 - —
t.c.l., divd lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., divd. lb. .82 - —
t.c.l., divd lb. .83 - —
Acetone, CP dms., c.l., divd. lb. .10½- —
t.c.l. divd lb. .11½- —
tanks, divd lb. .08 - —
Methyl (see M)
Acetonitrile, dms., c.l., works lb. .45 - —
t.c.l., works lb. .47 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.17 - 1.19
Acetophenone, cns., dms lb. 1.21 - 1.85
tech., dms., t.c.l., works lb. .75 - —
N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85
Acetyltributyl citrate, tech. non-ret. dms. c.l. frt. alld. E of Denver lb. .36 - —
t.c.l. frt. alld. E. of Denver lb. .35 - —
tanks frt. alld. E. of Denver. lb. .33 - —
Acetyltriethyl citrate, tech., non-ret dms., c.l., frt. alld. E. of Denver lb. .39 - —
t.c.l. frt alld E of Denver. lb. .40 - —
tanks. frt. alld E. of Denver. lb. .37 - —
Acetyltri-2-ethylhexyl citrate, non-ret. dms., frt allo lb. .60 - —
Acid, abietic, coml., dms., c.l., works lb. .12 - —
t.c.l., ex whse lb. .1490- —
cryst., dms. c.l., works lb. .06½- —
t.c.l., works lb. .07 - .07½
Acetic, coml., or redist., 28%, bbls 100 lbs. 4.80 - —
56% bbls 100 lbs 8.25 - —
70% bbls 100 lbs. 9.95 - —
80% bbls 100 lbs. 10.45 - —
glacial, syn. CP, dms., divd. 00 lbs. 22.00 -23.00
tech. dms. c.l., divd 100 lbs. 13.75 - —
t.c.l., divd. 100 lbs. 14.25 - —
tanks, divd 100 lbs. 10.00 - —
USP chys., inclusive, divd., 100 lbs. 31.00 -32.00
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, makers, primary distrib., bbls., 1,000-lb lots, point of shipt lb. .61 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (80 mesh) bbls. 1,000-lb lots. lb .56 - 58
Freight equald, shipt identical quantity over standard routes, from N. Y., Phila. Midland, Mich. Chicago and St. Louis
Adipic, bgs., c.l. divd lb. .32 - —
t.c.l., divd lb. .34¼- —
Aminoacetic NF bbls., frt adjusted lb. 1.50 - 1.75
p-Aminobenzoic, tech. dry, dms., works lb. 1.74 - 1.77
USP dms., 1,000-lb lots or more, works lb. 2.60 - —
smaller lots, works lb. 2.65 - 2.75
p-Aminosalicylic dms. 100 lbs or more, frt adjusted lb 3.70 - —
Anthranilic 99%, 150-lb. dms., divd lb. 1.15 - —
Arsenous, tech (see Arsenic, white).
USP (see Arsenic trioxide)
Ascorbic USP dms., 25-100 kilo lots kilo. 12.00 - —
10-kilo lots kilo. 12.35 - —
5-kilo lots kilo. 12.75 - —
bots 1-kilo lots kilo. 13.00 - —
500-gram lots kilo. 13.50 - —
Battery, chys., c.l., works, E 100 lbs. 2.35 - —
t.c.l., works, E 100 lbs. 2.65 - 3.45

Acid, benzoic, tech., bbls., dms., 100-lb lots or more lb. .44 - —
USP, bbls., dms. 100-lb. lots or more lb. .54 - —
Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).
Betaoxynaphthoic (see Acid b-Oxynaphthoic).
Boric, tech., 99.9%, cryst., bgs., c.l., works ton. 126.75 - —
ton lots, ex whse, N. Y. or Chi ton. 178.50 - —
smaller lots, same basis. ton. 183.50 - —
dms., c.l., works ton. 151.25 -172.25
ton lots, ex whse, N. Y. or Chi ton. 203.00 -223.00
smaller lots, same basis. ton. 208.00 -228.00
gran., bgs., c.l., works ton. 101.75 - —
ton lots, ex whse, N. Y. or Chi ton. 153.50 - —
smaller lots, same basis. ton. 158.50 - —
dms., c.l., works ton. 126.25 -147.25
ton lots, ex whse, N. Y. or Chi ton. 178.00 -198.00
smaller lots, same basis. ton. 183.00 -203.00
bulk, c.l., works ton. 95.75 - —

Acid, boric, tech., 99.9% powd., bgs., c.l., works ton. 106.75 - —
ton lots, ex whse, N. Y. or Chi ton. 158.50 - —
smaller lots, same basis. ton. 163.50 - —
dms., c.l., works ton. 131.25 -152.25
ton lots, ex whse, N. Y. or Chi ton. 183.00 -203.00
smaller lots, same basis. ton. 188.00 -212.00
USP boric acid $25 per ton higher.
Broenners, bbls lb 1.76 —
Butyric, 99%, dms., c.l., works lb .34 - —
t.c.l. works lb .34½- —
tanks, works lb .32½- —
Capric, dms lb. .25 .27
Caprylic, dms lb. .25 .27
Cassella dms. frt alld., 100% basis lo 1.44 1.75
Castor oil, dms lb. .17¾- .19¾
Chicago paste bbls., frt. alld lb. 3.21 - —
Chloroacetic, mono purif., flake, 99% dms lb. .23½- .25½
tech. flake 96-97% dms., frt. equald lb. .20 - .21
o-Chlorobenzoic, fib dms., t.l., works lb 1.10 - —
smaller lots, works lb. 1.25 - —

Acid, p-chlorobenzoic, fib. dms., 2,000 lbs. or more, works lb 2.25 - —
less than 2,000 lbs., same basis. lb 2.30 - —
Chlorosulfonic, dms., c.l., frt. equald lb. .0463- —
t.c.l., frt. equald lb. .0515- —
tanks, frt equald lb. .0415- —
Acid, chlorosulfonic, in stainless steel dms. ½c per lb higher.
Chromic, 99¾%, dms., c.l., works, frt. equald lb. .29½- —
t.c.l., divd. N. Y. Metropolitan area lb. .30 - .31
NF (see Chromium trioxide).
Cinnamic, refd., bots lb 2.50 3.50
Citric, USP anhyd gran. fine gran., bgs., dms., c.l. lb. 29½ .30
10,000-lb lots 1 shipt. lb. .30 .30¼
smaller lots lb. .30½- .31
hydrous, gran., fine gran., bgs., dms., c.l lb. .27½ .28
10,000-lb lots 1 shipt. lb. .28 .28¼
smaller lots lb. .29 .29¼
Powdered citric acid ½c higher
Cleve's, mixed, bbls lb 1.05 - —
Coconut oil, dist., dms lb. .25 .27
tanks lb. .23 - —
dbl dist., dms lb. .25 .27
tanks lb. .23 .24
Corn oil, dist. dms lb. .16¾- .18¾
tanks lb. .14¾- —
Cottonseed oil dist., dms lb. .15¾- .17¾
tanks lb. .13¾- —
2,3-Cresotic, dms., ton lots works. lb. .70 - —
less than ton lots, works lb. .72 - —
Cresylic, oaltar, dom., resin and tricresyl phosphate grade, 50%, 207° or above, tanks, frt. equald, gal. 1.10 - —
204° to 207° C., tanks, frt equald gal. 1.20 - —
non-resin grade, 50%, 210° or above, total range over 9° C., dms., c.l., frt, equald, gal. 1.15 - —
t.c.l., frt equald gal. 1.19 - 1.20
tanks, frt, equald gal. 1.00 - —
Imp. 75% at 215° C. or over, dms., ex whse gal. .93 - —
petroleum, dom., 195° to 214° C., non-ret dms., 63 to c.l., works, San Francisco and Los Angeles gal. .80 - —
t.c.l., same basis gal. .82 .84
tanks, same basis gal. .65 —
200° C. to 222° C., tanks, Wilmington, Cal lb. .65 .72
211° C. to 237° C., non-ret. dms., c.l., San Francisco and Los Angeles gal. .76 —
t.c.l., same basis gal. .78 .80
tanks, same basis gal. .61 —
220° C. to 242° C., tanks, Wilmington, Cal lb. .62 .67
245° C. to 295° C., tanks, Wilmington, Cal gal. .50 —
Crotonic fib. dms., 200 lbs. or more, works lb. .50 —
Cyanoacetic, tech bbls lb. .90 1.25
Dichlorophenoxyacetic (see 2,4-D).
Diethylbarbituric (see Barbital).
Diglycolic bgs. works lb. .14 —
Dihlodibenzoic dms., 1,000-lb. lots, works lb. 1.45 - —
2-Ethyl hexoic, dms., c.l., divd lb. .37 - —
t.c.l. divd lb. .38 - —
tanks divd lb. .34½- —
F, crude, paste, bbls., works lb. 2.10 - —
Folic, bots., fib. cns., kilo-lots or more gram. 1.40 - —
Formic, 85%, cbys., c.l., works lb. .1570- —
t.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. .1625- —
t.c.l., works lb. .1675- .1775
Fumaric tech. bgs. dms., c.l., frt. alld E lb. .25½- .27
t.c.l., same basis lb. .26½- .28
Prices of fumaric acid 1½c. per lb. higher west of Denver.
Gallic NF VII bbls. 1,000-lb lots lb. 2.00 - —
smaller lots lb. 2.02 - 2.22
tech., bbls., 1,000-lb. lots lb. 1.78 - —
smaller lots lb. 1.80 - 2.00
Gamma dist. grd bbls. frt allo lb 1.50 —
paste bbls. frt. allo lb 1.40 —
Gluconic, tech. 50% bots lb. .23 .35
cbys lb. .19 —
dms lb. 15½- —
l-Glutamic 99½% fib dms., 100-lb. lots, frt. alld lb. 2.00 - —
25-lb. lots, frt. allo lb. 2.05 - —
Glycolic (see Acid hydroxyacetic).
H, dry bbls c.l works, 100% basis lb. 1.00 - —
t.c.l. same basis lb. 1.02 - —
Hydriodic, 1.50 s.g., cbys lb. 2.94 - —
1.70 s.g., cbys lb. 3.23 - —
Hydrobromic, medicinal, 48%, cbys., divd E lb. .37 .43
Hydrocitric, anhyd (see Hydrogen chloride).
18° cbys c.l., works 100 lbs. 2.50 - —
t.c.l. divd., Metropolitan area 100 lbs. 2.90 3.05
tanks, works, frt. equald ton. 28.00 - —
20° cbys. c.l., works 100 lbs. 2.75 - —
t.c.l., divd Metropolitan area 100 lbs. 3.15 - —
tanks, works, frt. equald ton. 30.00 - —
22°, cbys., c.l., works 100 lbs. 3.25 - —
t.c.l. divd., Metropolitan area 100 lbs. 3.65 - —
tanks, works, frt. equald ton. 33.00 - —
CP, USP consumers, cbys., extra, c.l., works lb. .15¾- —
t.c.l., same basis lb. .17¼- .17¾
5-pint bots, extra, cs., c.l., same basis lb .20¾- —
t.c.l., same basis lb. .22¼- .23¼
Acid, hydrochloric, CP, USP, prices to dealers 1½c per lb less.
Hydrocyanic, cyls. c.l. divd lb. .70 —
t.c.l., same basis lb. .75 - .90
dilute, NF, 2%, 5-lb bots lb. .40 - —
Hydrofluoric, anhyd. (see Hydrogen fluoride).
aqueous, 70%, 55-gal. dms., c.l., t.l., divd 100 lbs. 19.25 - —
t.c.l., t.t.l., divd 100 lbs. 20.75 - —
20-gal. dms., c.l., t.l., divd. 100 lbs. 21.00 - —
t.c.l., t.t.l., divd 100 lbs. 22.50 - —
tanks, works, frt. equald. 100 lbs. 13.50 - —
Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington, and Wyoming. In those states add $2.70 per cwt. for drum delivery.
Hydrofluosilicic, dms. works, 30% basis lb. .06 - —
Hydroxyacetic, tech., 70%, non-ret bbls., Phila., 100% basis lb. .136 - —
tanks Belle, W. Va., 100% basis lb .095 —
Hypophosphorus, purif., 50%, cbys lb. 1.30 1.32
USP, cbys lb. .88 —
Isonicotinic, 100-lb fib dms., works lb. 4.25 —
Hydrazide (see Isoniazid).
Itaconic, tech., fib. dms., c.l., works lb. .43 - —
t.c.l., works lb. .44 - —
purif., fib. dms., c.l., works lb .53 —
t.c.l., works lb. .54 —

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	NNR	New and Nonofficial Remedies
amorph.	amorphous	djns.	demijohns		
AMP	American melting point	dlvd.	delivered	No.	number
		dms.	drums	nom.	nominal
anhyd.	anhydrous	dom.	domestic	o-	ortho
a.p.a.	available phosphoric acid	E.	east	ord.	ordinary
		e.p.	end point	oz.	ounce
approx.	approximately	equald.	equalized	p-	para
artif.	artificial	exp.	expressed	Pac.	Pacific
ASTM	American Society for Testing Materials	F	fahrenheit	pf	proof
		ferment.	fermentation	phos.	phosphate
Atl.	Atlantic	f.f.a.	free fatty acid	photo.	photographic
Be.	Baume	f.f.c.	free from chlorine	pkge.	packages
bbls.	barrels	fib.	fiber	powd.	powdered
bgs.	bags	f.o.b.	free on board	precip.	precipitated
bls.	bales	f.p.a.	free of prussic acid	prod.	producer
bots.	bottles			pt.	point
b.p.	boiling point	frt.	freight	pulv.	pulverized
b.p.l.	bone phosphate of lime	gal.	gallon	purif.	purified
		gran.	granular	redist.	redistilled
b.r.	boiling range	grd.	ground	refd.	refined
bxs.	boxes	i.&a.	iron and aluminum	refy.	refinery
C.	centigrade			reg.	regular
cbys.	carboys	i.b.p.	initial boiling point	resub.	resublimed
CD	completely denatured			ret.	returnable
		imp.	imported	SD	specially denatured
c.i.f.	cost insurance, freight	incl.	included	s.d.	single distilled
		indust.	industrial	S. E.	southeast
cks.	casks	kgs.	kegs	sec.	secondary
c.l.	carlots	l-	laevo	secs.	seconds
cns.	cans	lacq.	lacquer	s.g.	specific gravity
coml.	commercial	lb	pound	ship't	shipment
conc.	concentrated	l.c.l.	less than carlots	soln.	solution
CP	chemically pure	l.t.l.	less truckload	s.u.	standard unit
		liq.	liquid	syn.	synthetic
cps.	centipoises	mfrs.	manufacturers	tanks.	railroad tankcars
cryst.	crystal	m-	meta	tech.	technical
cs.	cases	m.a.p.	mixed aniline point	tert-	tertiary
ctns.	cartons			t.l.	truck loads
cyls.	cylinders	min.	minimum	t.w.	tank wagons
d-	dextro	m.p.	melting point	USP	U.S. Pharmacopoeia
dbl.	double	N-	nitrogen	vis.	viscosity
denat.	denatured	n-	normal	VM&P	varnish makers & painters
dest-dist.	destructive-distilled	nat.	natural		
		neut.	neutral	W	west
dl-	dextro-laevo	NF	National Formulary	whse.	warehouse
dist.	distilled			w.w.	water-white

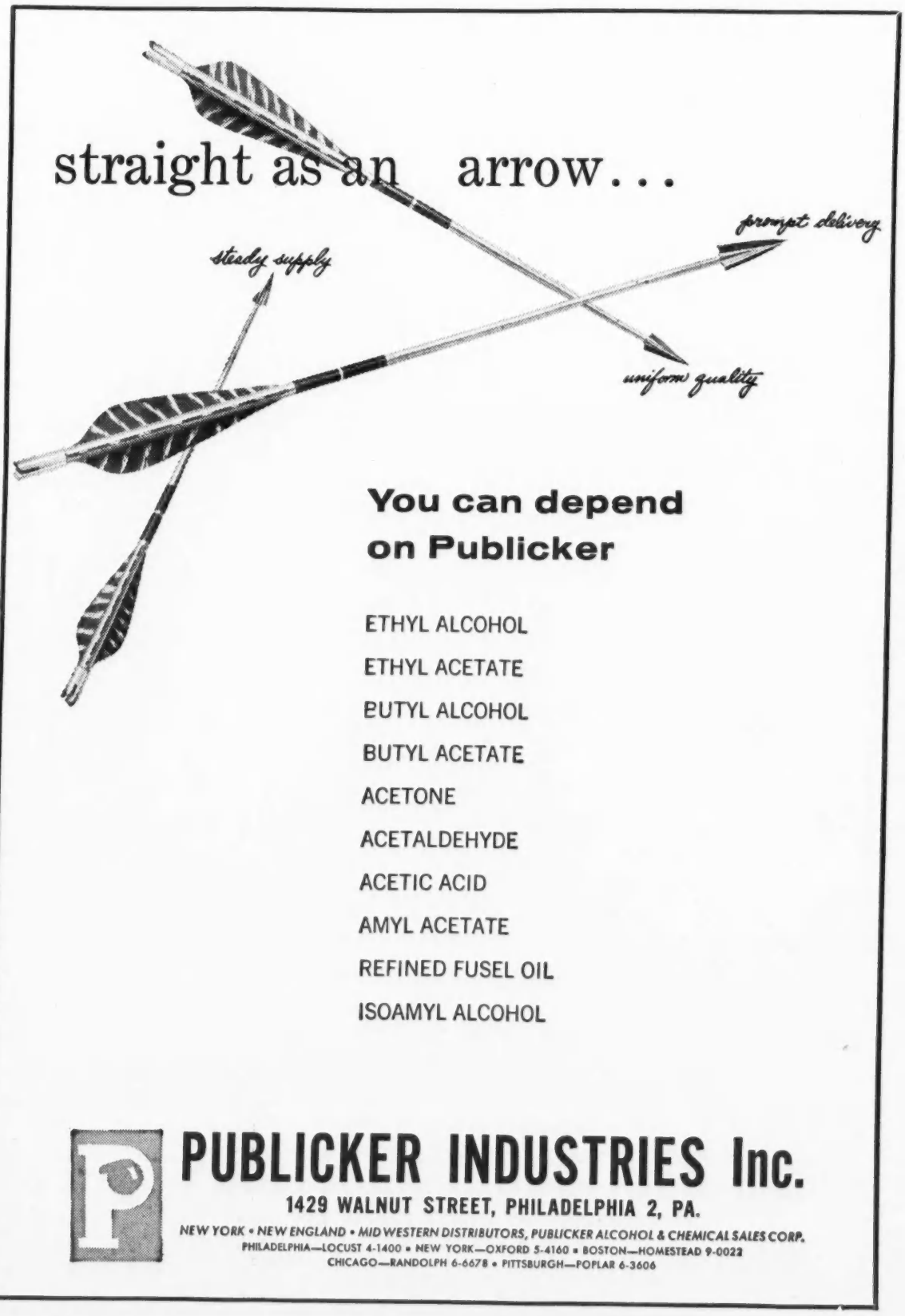
A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, J, paste, bbls., works, 100% basis lb. 2.45 - —
powd, bbls., sam basis lb 2.50 - 2.85
Koch, bbls., frt. alld., 100% basis. lb. 1.00 - —
L, buls., works lb. 1.25 - —
Lactic, edible, 50%, bbls., 20 or more lb. .1821- .215
smaller lots lb. .1921- .225
80%, bbls., 5 or more lb. .3121- .37
smaller lots lb. .3171- .375
plastic grade 50%, bbls., 20 or more, works lb. .23 - —
1 to 19 lb. .235 - —
80%, bbls., 5 or more lb. .385 - —
tech., 22%, bbls., c.l., works 100 lbs 6.30 - —
l.c.l., works 100 lbs 6.70 - —
cbys., l.c.l., works 100 lbs. 12.20 - —
44%, bbls., c.l., works 100 lbs. 11.45 - 11.95
l.c.l., works 100 lbs. 11.85 - 12.35
USP, 85%, cbys. lb. .85 - .88
Laurent's, bbls lb. .60 - —
Lauric, 90%, dms lb. .36½- .38½
Linseed oil, dist., dms lb. .2030- —
w.w., dms lb. .2330- —
Maleic, cryst, powd, dms lb. .37 - .38
Malic, tech., dms lb. .50 - —
Mandelic, NF dms, 1,000-lb. lots lb 2.35 - —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works lb. .57 - .75
Methacrylic, glacial, 98%, dms., truckloads, works lb. .47 - —
smaller lots, works lb. .47½- .50
tanks, works lb. .45 - —

Acid, molybdic, 85%, dms, works lb. 1.20 - —
Monochloroacetic, purif. (see Acid, Chloroacetic mono-).
Muriatic (see Acid, hydrochloric).
Myristic, dms lb. .26 - .28
1-naphthol-4 sulfonic (see Acid, Neville and Winthers)
1-Naphthol-5-sulfonic (see Acid, L).
1-Naphthol-5-sulfonic 8-amino (see Acid, S).
1-Naphthol-3,6-disulfonic 8-amino (see Acid, H).
2-Naphthol-6,8-disulfonic (see Acid, Gamma).
5-Naphthol-7-sulfonic 2-amino (see Acid, J).
Naphthol sulfonic mixed (see Acid, Cleve's).
1-Naphthylamine-5-sulfonic (see Acid, Laurent's).
2,Naphthylamine-4,8-disulfonic (see Acid, Cassella).
2-Naphthylamine-6-sulfonic (see Acid, Broenner's).
2-Naphthylamine-7-sulfonic (see Acid, F).
2-Naphthylamine-1-sulfonic (see Acid Tobias).
Nevile and Winther's, dms., frt alld lb. 1.30 - —
Nicotinic USP dms., dlvd kilo 8.00 - 8.30
Amide, USP (see Nicotinamide).
Nitric, 36° Be, cbys, c.l., works, E 100 lbs. 5.75 - —
l.c.l., works, E 100 lbs. 6.05 - 6.85
38° Be, cbys., c.l., works, E 100 lbs 6.25 - —
l.c.l. works, E 100 lbs 6.55 - 7.35
40° Be, cbys., c.l., works, E 100 lbs 6.75 - —
l.c.l., works, E 100 lbs 7.05 - 7.85

Acid, nitric, 42° Be, cbys., c.l., works, E 100 lbs. 7.25 - —
l.c.l., works, E 100 lbs. 7.55 - 8.35
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.90 - —
CP, NF, consumer, cbys., extra, c.l., works lb. .18½- —
l.c.l., same basis lb. .20 - .20½
5 pt. bots, extra, cs., c.l., same basis lb. .22½- —
l.c.l., same basis lb. .24 - .25
p-Nitrobenzoic, dms., c.l., works. lb. .72 - —
l.c.l., works lb. .73 - —
Oleic, s.d., dms lb. .18½- .20½
tanks lb. .16½- —
dbl. dist. (white) dms. lb. .20½- .22½
tanks lb. .18½- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3-Creosotic).
Oxalic, bbls, c.l., works lb. .16½- —
10,000-lb lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —
b-Oxynaphthoic, fib dms, 250 lbs. or more, frt alld lb. 1.14 - 1.17
Palm dist., dms lb. .14¾- .16¾
tanks lb. .12¾- —
Para aminobenzoic (see Acid, p-Aminobenzoic).
Para aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid p-Chlorobenzoic).
Paramethylphenylcinchonic (see Neocinchophen).
Paranitrobenzoic (see Acid p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid p-toluidine-m-sulfonic).
Peri, dry, frt, alld. lb. 1.35 - —
paste, frt. alld. lb. 1.30 - —
Phenylacetic, pure, cryst., cns. lb. 1.45 - 1.75

Acid, phenylcinchoninic (see Cinchophen).
Phenylglycolic (see mandelic).
Phosphoric, food grade, 75%, cbys., c.l., works, E., frt. equald 100 lbs. 6.75 - —
l.c.l., same basis 100 lbs. 7.00 - 7.50
tanks, works 100 lbs. 5.35 - —
80%, cbys., c.l., frt. alld. 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 7.85 - 9.10
tanks, works 100 lbs. 5.75 - —
NF, 85%, cbys., c.l., works lb. .0825- —
c.l., works lb. .0850- .0875
tanks works lb .0640- —
Picric, NF, bbls lb. .85 - —
tech., bbls lb. .44 - —
Propionic, syn., pure, dms., c.l., frt. alld lb. .22¾- —
l.c.l., frt. alld lb. .23¾- —
tanks, frt. alld lb 20¾- —
Pyrogallic, NF (see Pyrogallol)
tech., bbls lb. 3.17 - 3.25
Ricinoleic (see Acid, castor oil, split).
S., bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms., c.l., frt. alld lb. .35 - —
l.c.l., frt. alld. of 100 lbs. or more lb. .36 - —
sublimed, tech., fib. dms., c.l., dlvd lb. .37 - —
l.c.l., dlvd. lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powd., fib. dms lb. .55 - —
Sebacic, purif., dms., c.l., works lb. .64 - —
l.c.l., works lb. .66 - .70
Soybean oil, dbl. dist., dms lb. .18¾- .20¾
tanks lb. .16¼- —
s.d., dms lb. .17¼- .19¼
tanks lb. .15¼- —
Stearic, dbl. pressed, bgs lb. .15¼- .17¼
single pressed, bgs lb. .14¾- .16¾
triple pressed, bgs lb. .17½- .19½
Succinic, purif., cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .21 - —
l.c.l., frt. alld lb. .23 - —
Sulfuric 60° Be, cbys., c.l., works 100 lbs 2.00 - —
l.c.l., works 100 lbs 2.45 - —
tanks, works ton 18.60 - —
66° Be, cbys., c.l., works. 100 lbs. 2.25 - —
l.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton 22.35 - —
98%, tanks, works ton 23.50 - —
99-100%, tanks, works ton 23.95 - —
CP, NF, consumers, frt. equald. lb. .12¾- —
l.c.l., same basis lb. .14¼- .14¾
5-pt. bots., extra cs., c.l., works, frt. alld lb. .16¼- —
l.c.l., same basis lb. .18¼- .18¾
fuming (oleum), 20%, tanks, works ton 25.00 - —
40%, tanks, works ton 29.00 - —
65%, tanks, works ton 39.50 - —
Tall oil, dms., c.l., works lb. .09 - .09½
tanks, works lb. .07½- .08
Tallow dist., dms lb. .15¼- .17¼
tanks lb. .13¼- —
hydrogenated, dms lb. .14¼- .16¼
Tannic, NF fluffy bbls., 1,000-lb. lots lb. 2.05 - —
smaller lots lb. 2.06 - 2.10
powd., bbls., 1,000-lb. lots lb. 1.90 - —
smaller lots lb. 1.96 - 2.01
tech, dms lb. 1.05 - —
Tartaric, USP, dom., 230 or 250-lb. dms., c.l lb. .49 - —
10,000-lb. lots, 1 shipt. lb. .49½- —
smaller lots lb. .50 - —
100-lb. dms lb. .51 - —
imported, bgs lb. .42 - .43
Thioglycolic, refd., cbys., 100% basis lb. 1.35 - 1.55
Thiosalicylic, purif., dms., 1,000-lb. lots, works lb. 4.00 - —
Tobias, bbls., frt. alld lb. .81 - —
p-Toluenesulfonic, dms., c.l., t.l., works lb. .17 - —
l.c.l., works lb. .18 - —
p-Toluene sulfonic, monohydrate, dms., c.l., or t.l lb. .90 - —
125 lbs. to t.l lb. 1.00 - —
o-Toluidine-m-Sulfonic, frt. alld. lb. .70 - —
p-Toluidine-m-sulfonic, bbls., works lb .92 - 1.04
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see 2,4,5-T).
Tungstic, tech., dms., 1,000-lb. lots, works lb. 3.00 - —
smaller lots, works lb. 3.15 - 3.50
Undecylenic, dms lb. 1.40 - —
Aconite root, bls lb. .50 - .55
Acrolein, tech., dms., c.l., works lb. .47 - —
l.c.l., works lb. .47½- —
tanks works lb. .46 - —
Acrylonitrile, dms., c.l., t.l., frt. equald lb. .31 - —
l.c.l., l.t.l., frt. equald lb. .32 - —
tanks, frt. equald lb. .28 - —
ACTH, cryst., bulk, 1,000 units/gram, bots gram 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP Kobe No. 1, strip, bls. lb. 2.25 - —
powdered, 30 mesh, fib., dms lb. 2.75 - —
dl-Alanine dms., works lb 8.50 - 11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms lb. .65 - 1.00
Egg, edible, cryst., powd., bbls. lb. 1.69 - 1.71
flake lb. 1.65 - 1.67
tech., cryst., bbls lb. 1.08 - 1.10
Alcohol, allyl, dms., c.l. dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°-132°C., dms. l.c.l., dlvd lb. .43 - —
ACS grade, dms., l.c.l., dlvd lb. .45 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld lb. .18½- —
l.c.l., frt. alld lb. .19½- —
tanks, frt. alld lb. .16 - —
primary, dms., c.l., frt. alld. lb. .19¾- —
l.c.l., frt. alld lb. .20¾- —
tanks, frt. alld lb. .17¾- —
sec-synthetic, dms., c.l., works, frt. alld lb. .19 - —
l.c.l., works lb. .20 - —
tanks, works lb. .17 - —
tert-synthetic, dms., c.l., frt. alld. E lb. .18½- —
l.c.l., frt. alld E lb. .19½- —
tanks, frt. alld E lb. .16 - —
1-pentanol, (syn. normal), dms., c.l., works lb. .41½- —
l.c.l., works lb. .42½- —
tanks, works lb. .39½- —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl, ferment., dms., c.l., frt. alld lb. .16½- —
l.c.l., frt. alld lb. .17½- —
tanks, frt. alld lb. .14 - —
synthetic, dms., c.l., dlvd lb. .16½- —
l.c.l., dlvd lb. .17½- —
tanks, dlvd lb. .14 - —
sec-synthetic, dms., c.l., dlvd. lb. .14½- —
l.c.l., dlvd lb. .15½- —



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ETHYL ALCOHOL
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PUBLICKER INDUSTRIES Inc.
1429 WALNUT STREET, PHILADELPHIA 2, PA.
NEW YORK • NEW ENGLAND • MID WESTERN DISTRIBUTORS, PUBLICKER ALCOHOL & CHEMICAL SALES CORP.
PHILADELPHIA—LOCUST 4-1400 • NEW YORK—OXFORD 5-4160 • BOSTON—HOMESTEAD 9-0022
CHICAGO—RANDOLPH 6-6678 • PITTSBURGH—POPLAR 6-3606

Alcohol, n-butyl, sec-synthetic, tanks, dlvd	lb.	.12	—
tert-synthetic dms., c.l., frt. alld.	lb.	.14	—
l.c.l., frt. alld.	lb.	.15	—
tanks, frt. alld.	lb.	.12	—
Caprvl, 95%, dms., c.l., works	lb.	.21½	—
l.c.l., works	lb.	.22½	.23½
tanks, works	lb	.19½	—
Cetyl, extra, fib. cns., 500-lb. lots or more	lb.	.65	.72
NF, fib. cns., 140-lb. lots or more	lb.	.48	—
Cinnamic, bots	lb.	2.15	2.75
Decyl mixed isomers, dms., c.l., dlvd.	lb.	.23½	—
l.c.l., dlvd	lb.	.24½	—
tanks, dlvd	lb.	.21	—
perfume grade bots (see 1-Decanol)	lb.	1.75	2.00
Denat, CD-12, CD-13, CD-14, CD-17, dms., c.l., dlvd. E of Rockies	gal.	.64½	.66
l.c.l., same basis	gal.	.69½	.77
tanks, dlvd., same basis	gal.	.48½	.50

Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.

Proprietary solvent, dms., c.l., dlvd. E of Rockies	gal.	.66	—
l.c.l., same basis	gal.	.71	.77
tanks, same basis	gal.	.50	—

Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.

SD1, dms., dlvd. E. of Rockies.	gal.	.66	—
l.c.l., same basis	gal.	.71	.77
tanks, same basis	gal.	.50	—
SD2B, dms., c.l. dlvd. E. of Rockies	gal.	.64	—
l.c.l., same basis	gal.	.69	.75
tanks, same basis	gal.	.48	—
SD3A, dms., c.l., dlvd. E. of Rockies	gal.	.635	—
l.c.l. same basis	gal.	.685	.745
tanks same basis	gal.	.475	—
SD23A dms c.l dlvd E of Rockies	gal.	.655	—
l.c.l., same basis	gal.	.705	.765
tanks, same basis	gal.	.495	—
SD25H, dms., c.l., dlvd. E. of Rockies	gal.	.66	—
l.c.l., same basis	gal.	.71	.77
tanks, same basis	gal.	.50	—
SD29, dms., c.l., dlvd E. of Rockies	gal.	.645	—
l.c.l., same basis	gal.	.695	.755
tanks, same basis	gal.	.485	—
SD30, dms., c.l., dlvd. E. of Rockies	gal.	.63	—
l.c.l., same basis	gal.	.68	.74
tanks, same basis	gal.	.47	—
SD35A dms. c.l. dlvd. E. of Rockies	gal.	.663	—
l.c.l. same basis	gal.	.715	.775
tanks same basis	gal.	.505	—
SD40, dms., c.l., dlvd. E. of Rockies	gal.	.645	—
l.c.l., same basis	gal.	.695	.755
tanks same basis	gal.	.485	—

West coast dlvd prices are the same as eastern prices, except in Idaho, Montana, Oregon and Washington, where a 5c. differential on tankcars is maintained

Diacetone acetone-free, dms., c.l., dlvd	lb.	.15	—
l.c.l., dlvd	lb.	.16	—
tanks, dlvd	lb.	.125	—
tech., dms., c.l., dlvd	lb.	.145	—
l.c.l., dlvd	lb.	1.55	—
tanks, dlvd	lb.	.12	—
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies	gal.	20.58	—
c.l. same basis	gal.	20.63	-20.69
tanks same basis	gal.	20.42	—
tax free, dms., c.l., dlvd. E. of Rockies	gal.	.63	—
l.c.l. same basis	gal.	.68	.74
tanks, same basis	gal.	.47	—
absolute, 200 pf. tax paid, dms., dlvd E of Rockies	gal.	21.68	—
l.c.l., same basis	gal.	21.73	-21.79
tanks, same basis	gal.	21.52	—
2-Ethylbutyl, dms. c.l. works	lb.	.30	—
l.c.l., works	lb.	.30¼	—
tanks, works	lb.	.28	—
2-Ethylhexyl, dms., c.l., dlvd. E.	lb.	.24¼	—
l.c.l., same basis	lb.	.25¼	—
tanks, same basis	lb.	.21¼	—
Furfuryl cns. works	lb.	.29	—
dms., c.l. Memphis, Tenn.	lb.	.20	—
Newark N J	lb.	.21½	—
l.c.l., Memphis Tenn.	lb.	.21	—
Newark N J	lb.	.22½	—
tanks Memphis Tenn	lb	.184	—
Hydroabietyl, tech., solid, Zone 1, dms., c.l., dlvd	lb.	.29¼	—
l.c.l., dlvd	lb.	.29¾	.30¼
tanks, dlvd	lb.	.27¼	—

Zone 1 for hydroabietyl alcohol comprises all of continental US except Ariz., Calif., Colo., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo. and the western part of Texas.

Isoamyl, dms. c.l. works, frt alld. E	lb.	.28	—
l.c.l. same basis	lb.	.29	—
tanks, same basis	lb.	.25	—
Isobutyl, dms., c.l., dlvd	lb.	.15½	—
l.c.l., dlvd	lb.	.16½	—
tanks, dlvd	lb.	.13	—
Iso-octyl, dms., c.l., dlvd. E	lb.	.23½	—
l.c.l., dlvd E	lb.	.24½	—
tanks, dlvd E	lb.	.21	—
Isopropyl, refd. 91%, dms., c.l., dlvd	gal.	.53	—
l.c.l., dlvd	gal.	.60	—
tanks, dlvd	gal.	.37	—
95% c.l. dlvd	gal.	.55	—
l.c.l., dlvd	gal.	.62	—
tanks, dlvd	gal.	.39	—
99%, dms., c.l., dlvd	gal.	.57	—
l.c.l., dlvd.	gal.	.64	—
tanks, dlvd	gal.	.41	—
Lauryl, bots.	lb.	2.00	2.50
Methyl (see Methanol).			
Methylamyl (see Methyl isobutyl carbinol).			
Octyl, perfumer's grade, bots	lb.	1.60	3.25
tech. (see Octanol, normal).			
2-Phenylethyl, extra, dms	lb.	1.14	1.45
standard, dms	lb.	1.10	1.60
n-Propyl, dms., c.l., dlvd	lb.	.13½	—
l.c.l., dlvd	lb.	.14½	—
tanks, dlvd	lb.	.11	—
Tetrahydrofurfuryl, dms., c.l. or t.l., f.o.b. Memphis, Tenn	lb.	.37	—
l.c.l. or t.t.l., f.o.b. Memphis, Tenn	lb.	.38	—
f.o.b. Newark, N. J	lb.	.40	—
tanks, dlvd E of Denver	lb.	.365	—
dlvd. W. of Denver	lb.	.375	—
Tridecyl, mixed isomers, dms., dlvd	lb.	.26½	—
l.c.l., dlvd	lb.	.27½	—
tanks, dlvd	lb.	.24	—
Wood (see Methanol).			
Aldol, 95%, dms., works	lb.	.23	—
denaturing grade dms	gal.	2.15	—
Aldrin tech. fib dms. c.l., t.l., dlvd	lb.	.80	—
l.c.l., dlvd	lb.	.85	—
Aletris root, bgs	lb	1.75	1.85
Algin (see Sodium alginate).			
Alizarine (see 1,2-dihydroxy anthraquinone)			
Allethrin, 90% dms. frt alld	lb.	28.80	28.90
soln. 20% dms. 200-2,000 lb lots, frt. alld	lb.	6.50	6.55
2½% dms. frt alld	lb.	.95	1.00
Allspice (see Pimento).			

Allyl bromide, cbys., works	lb.	1.45	1.50
Chloride, dms., c.l., dlvd	lb.	.17	—
l.c.l., dlvd	lb.	.18	—
tanks dlvd	lb.	.15	—
Aloe, Cape, cs	lb.	.50	—
powd., cs	lb.	.65	—
Curacao, kgs	lb.	.60	—
Aloin, USP, bbls., dms., kgs	lb.	3.35	3.75
Alphanaphthol (see a-Naphthol).			
Alphanaphthylamine (see a-Naphthylamine).			
Alphanitronaphthalene (see a-Nitronaphthalene).			
Alphapicoline (see a-Picoline).			
Alphaterpineol (see a-Terpineol).			
Alphatocopherol (see a-Tocopherol).			
Alum, ammonium, gran., bgs., works	100 lbs	4.30	—
lump, dms., works	100 lbs	5.05	—
powd., dms., works	100 lbs	5.20	—
USP, burnt, dms.	lb.	.20	.21
hydrous, dms.	lb	07¾	08
Potassium, gran., bgs., works.	100 lbs	4.55	—
lump, dms., works	100 lbs	5.30	—
powd., dms., works	100 lbs	5.45	—
USP, burnt dms	lb.	.20	.21
hydrous, dms	lb.	07¾	08
Potash-chrome, dms	lb.	.17	—
Alumina, calcined, bgs., c.l., works.	lb.	.0455	—
l.c.l., works	lb.	.048	.0755
Aluminum acetate, basic soln., 24% bbls., l.c.l. works	lb	.14	—
Chloride, com'l, anhyd., dms., c.l., works, frt. equald	lb.	.16	—
l.c.l., works, frt. equald	lb.	.16½	—
cryst., dms., c.l., works	100 lbs.	16.00	—
l.c.l., works	100 lbs.	17.50	—
soln. 32°, cbys, c.l. works	lb.	.0445	—
l.c.l., works	lb.	.0520	.1250
tanks, works	100 lbs	3.45	—
NF, gran., dms., works	lb.	.29	.30

Aluminum fluoride, tech., anhyd., bgs., c.l., works	lb.	.16¾	—
l.c.l., works	lb.	.17¾	.19¾
Aluminum fluoride in fib. dms. 0.35c. per lb. higher.			
Formate, basic soln., dms., c.l., works	lb	12	—
l.c.l., works	lb.	.12½	—
Hydrate, heavy, bgs., c.l., frt. frt. equald	lb.	.032	—
20,000-40,000 lb lots, same basis	lb.	.0345	—
2,000-20,000 lb lots, same basis	lb.	.0445	—
bulk, same basis	lb.	.0295	—
Hydroxide, gel, pharmaceutical, 14-15%, Al_2O_3, fib. dms., works	lb.	.22	—
contract, works	lb	21	—
9-9½% Al_2O_3, tib dms., works	lb	19	—
contract, works	lb	18	—
dried USP XIV fib dms., works	lb	82½	—
contract works	lb	70½	—
tech. powder (see Aluminum hydrate)			
Metal 99%+ ingots, 10,000 lb lots, frt. alld	lb.	.2710	—
pigs, 10,000 lb lots, frt. alld	lb.	.2500	—
Oxide, amorphous (see Alumina calcined)			
Paste, lining, extra-fine, dms	lb.	.68	—
standard grade, dms	lb.	.48	—

Aluminum powder, lining extra, fine, dms	lb.	1.09	—
standard grade, dms	lb.	78½	—

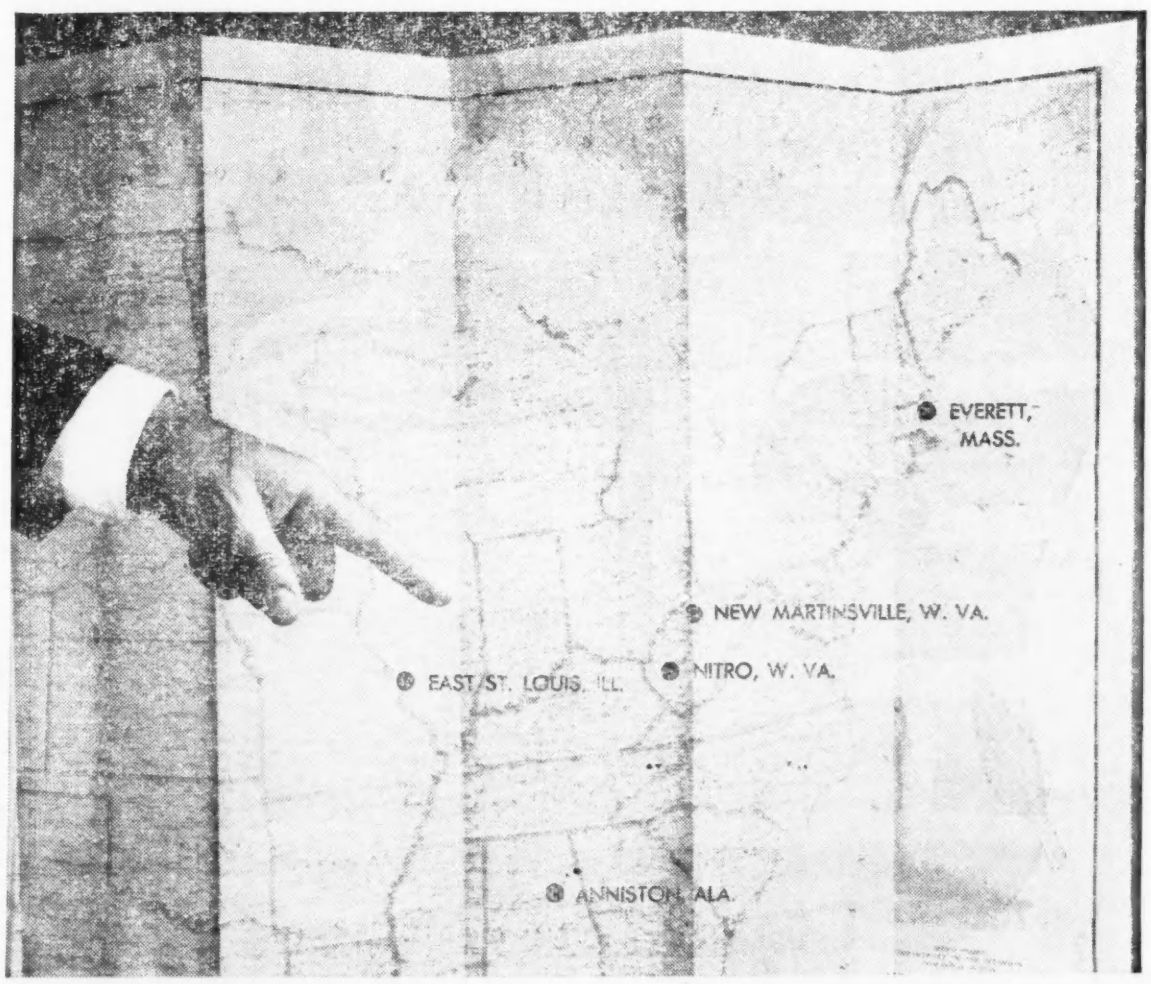
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c per lb for 100 lb dm., 1½c per lb for 50-lb dm., 3c per lb for 10-lb can and 5c to 12c per lb for smaller containers. Deduct 1c per lb for single shipment of 400 to 1,499 lbs., 2c for 1,500 to 4,999 lbs., 3c for 5,000 to 29,999 lbs. and 4c for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Resinate, precip., 2.1% Al, dms.,	100 lbs.	7.26	—
Stearate, dibasic, ctns., c.l	lb.	.37	—
l.c.l	lb	38	42
monobasic, ctns., c.l	lb	37	—
c.l	lb	38	42
tribasic, ctns., c.l.	lb	37	—
l.c.l	lb	38	42
Sulfate coml. bulk c.l. works	100 lbs	1.85	—
grd. bgs. c.l., works	ton	37.00	—
lump, bgs. c.l., works	ton	40.00	—
Iron free, bgs c.l. works, frt equald	100 lbs	3.55	—
l.c.l. works frt equald	100 lbs	3.95	4.55

Prices 1 per ton higher in the South.

USP, gran., dms., works	lb.	.29	.30
powd., dms. works	lb	.36	.37
Trihydrate, heavy (see Aluminum hydrate, heavy)			

GOOD NEWS IF YOU'RE EAST OF THE MISSISSIPPI



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If you're east of the Mississippi, or in a bordering state, any one of these five Monsanto plants can deliver to you high-quality Muriatic Acid and offer excellent service. Just tell us how much you want, and we'll check our map and calculate freight rates for delivered cost.

These plants offer you *prompt* delivery of Muriatic Acid of equal or *better* quality (water-white 20°-22° Baume) than you are getting now.

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MONSANTO

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Ambergris, gray, bots ..... oz 8.00 - 10.00
p-Aminoacetanilide, frt. alld. ... lb 1.57 - —
Aminoazotoluene base, bbls., 100% basis lb 1.03 - 1.18
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
l.c.l., dlvd lb. .485 - —
tanks, dlvd lb. 45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
l.c.l., frt. alld lb. .45 - —
tanks, frt. alld lb. 42 - —
m-Aminophenol, dist., dms., n lots, lb 2.05 - —
smaller lots lb 2.50 - —
p-Aminophenol, dms., frt. alld lb 1.15 - —
Aminophylline, USP, 100-lb. dms. lb 3.55 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald ton.75.00 - —
refrigeration, tanks, works, frt equald ton.82.50 - —
aqueous, tanks, works, anhyd basis ton.83.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal., gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 9.25 - —
white, refined (see Ammonium chloride, tech.).
Ammonium acetate, purif., dms. lb. .41 - —
Benzoate, USP, dms., kgs. 4,000-lb. lots frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, gran., dms., c.l., works ton.319.50 - —
ton lots, ex whse ....ton.397.00 - —
smaller lots, ex whse...ton.402.00 - —

Ammonium bicarbonate, dom., dms., c.l., works 100 lbs. 7.00 - —
l.c.l., works 100 lbs. 9.00 - —
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd lb. .214⅝ - .224⅝
Bromide, NF, gran., bbls lb. .43 - —
Powdered ammonium bromide 10c per lb higher.
Carbonate, USP, lump, dms. ... lb. .16 - —
Chloride, tech., fine gran., bgs., c.l., works 100 lbs. 5.75 - —
l.c.l., works 100 lbs. 7.75 - 8.20
USP, gran., bbls., dms. ... lb. .17¼ - —
Citrate, dibasic, bbls ..... lb. .77 - —
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia, aqueous).
Hypophosphite, NF, dms. .... lb. 3.07 - —
Iodide, NF, dms., bots ..... lb. 4.26 - 4.38
Linoleate, 80% dms. works lb. .50 - .55
Nitrate, dom., fert. grade, 33.5% N., bgs., western works, frt. equald, base price ton.64.00 - —
imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $8 per ton, base price ton.64.00 - —
August discount ton. 5.00 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton.79.69 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton.51.00 - —
Oxalate, fine gran., dms lb. .26½ - .31

Ammonium pentaborate, gran., bgs., c.l., works...ton.187.50 - —
ton lots, ex whse .....ton.273.50 - —
smaller lots, ex whse....ton.278.50 - —
Ammonium pentaborate powder $10 per ton higher.
Persulfate, kgs..... lb. .38 - .47½
Phosphate, coml., bgs., c.l., works, frt. equald lb. .09¼ - —
l.c.l., same basis lb. .10 - —
dibasic, NF, V bbls., dms. lb. .46 - —
tech., bgs., c.l., works, frt. equald lb. .09¼ - —
l.c.l., same basis lb. .10 - —
Salicylate, NF, dms., kgs. ..... lb. 1.62 - 1.64
Silicofluoride, dms., works .. lb. .11¾ - .13¼
Sulfamate, bgs., c.l., t.l., works lb. .18 - —
l.c.l., works lb. .22 - —
Sulfate, coke-oven, bulk, producing ovens, base price.. ton.32.00 - —
syn., bulk, c.l. f.o.b. works ton.32.00 - 42.00
purif., dms., works.....lb. .10 - .10½
Sulfide, liq., 40-44%, tanks, frt. equald., 100% basis ton.160.00 - —
Sulfocyanide, tech. (see Ammonium thiocyanate)
Thiocyanate, tech., dms., c.l., works lb. .20 - —
l.c.l., works lb. .22 - .26
Thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.65
highly purif., cbys., 100% basis. lb. 1.70 - 1.96
Thiosulfate, cryst., photo grade, fib. dms., frt. alld ... lb. .65 - —
d-Amphetamine hydrochloride, dibasic, bots. lb.28.00 - —
dl, dms .....lb. 6.00 - —
d-monobasic, bots .....lb.28.00 - —
d-Phosphate, dibasic, bots.....lb.28.00 - —
dl, dms .....lb. 6.00 - —
d-Sulfate, dms.....lb.28.00 - —
dl, dms.....lb. 6.00 - —

Amyl acetate, ex fusel oil, tech., dms., c.l., frt. alld. E. of Rockies lb. .18 - —
l.c.l., same basis.... lb. .19 - —
tanks, same basis lb. 15½ - —
ex pentane, reg. dms., c.l., dlvd. lb. .18½ - —
l.c.l., dlvd..... lb. .19½ - —
tanks, dlvd ..... lb. .16 - —
tech., dms., c.l., dlvd..... lb. .16½ - —
l.c.l., dlvd..... lb. .17½ - —
tanks, dlvd..... lb. .14 - —
syn., oxo process, dms., c.l., dlvd. lb. .19¾ - —
l.c.l., dlvd..... lb. .20¾ - —
tanks, dlvd..... lb. .18 - —
Alcohol (see Alcohol, amyl).
n-Butyrate, dms ..... lb 1.00 - 1.25
Cinnamic, aldehyde, dms..... lb 1.70 - 2.20
Nitrite, USP, bots ..... lb 1.75 - 1.83
Salicylate, cns., dms ..... lb .82 - 1.10
o-tert-Amyl phenol, dms., c.l., works, lb. .49½ - —
l.c.l., works..... lb. .50½ - —
tanks, works..... lb. .47 - —
p-tert-Amyl phenol, dms., c.l., works, lb. .26¾ - —
l.c.l., works ..... lb. .27¾ - —
tanks, works ..... lb. .25¾ - —
Anethole, NF, cns., dms ..... lb 1.60 - 1.80
tech., dms ..... lb 1.10 - 1.15
Angelica root, dom., bls ..... lb. .80 - .90
Aniline oil, dms., c.l., frt. alld. lb. .22 - —
l.c.l., frt. alld..... lb. .23 - —
tanks, frt. alld ..... lb. .21 - —
tankwagons, min. 2,000 gals. lb. .21½ - —
Salt, dms., c.l., truckloads 20,000 lbs., min. frt. alld. lb. .33 - —
l.c.l., same basis ..... lb. .35 - —
Anise seed, Mexican, bgs..... lb. .25 - —
Spanish, bgs..... lb. .25 - —
Syrian, bgs ..... lb. .25 - —
Anisic aldehyde, bots., dms ... lb 1.95 - 2.70
o-Anisidine, dms., c.l., frt. alld lb. .80 - —
l.c.l., same basis ..... lb. .82 - —
tanks, same basis ..... lb. .78 - —
p-Anisidine, dms., works ..... lb. .97 - —
Annatto seed, whole, bgs .... lb. .15 - .17
Anthracene, 90-95% bbls., ton-lots, works lb. .83 - —
smaller lots, works lb .95 - —
Anthraquinone, 99.5% bbls., c.l., frt. alld lb. .83 - —
l.c.l., same basis lb. .86 - —
electrical grade, bbls., l.c.l., same basis lb. .91 - —
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines .... lb. .33 - —
cs., c.l., mines ..... lb. .33½ - —
Oxide, bgs., c.l., frt. alld..... lb. .27 - —
l.c.l., frt. alld lb. .28½ - —
Sulfide, approx. 65%, bgs., dlvd lb. .23 - .26
Trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
l.c.l., works..... lb. .43 - —
Antimony-potassium tartrate, tech., powd., dms lb. .69½ - .74½
USP, powd., dms ..... lb. .74½ - .75½
Antipyrine, NF, 200-lb bbls lb 3.50 - —
Apomorphine hydrochloride, USP, 25 oz. lots oz.35.60 - —
Areca nuts, powd., bbls ..... lb. .13 - —
Arecoline hydrobromide, NF, bots., tins oz 4.50 - 6.00
l-Arginine monohydrochloride, dms., 1 kilo lots kilo.74.80 - —
Arnica flowers (true montana), bls. lb 2.25 - —
Arsenic metal, lump, bbls., ex whse. lb. .54 - —
Trioxide, USP, dms ... lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½ - —
t.c.l., dlvd ..... lb. .06½ - .07½
Asafetida, cn ..... lb. .40 - —
powd., bbls., dms..... lb. .85 - —
Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,400.00 - —
No. 2, c.l. (20 tons), mines.ton.750.00 - —
Run-of-mine, c.l. (20 tons) mines ton.611.60 - —
3K, c.l. (20 tons), mines ton.480.00 - —
3R, c.l., (20 tons) mines ton.408.10 - —
3T, c.l. (20 tons), mines ton.382.80 - —
3Z, c.l. (20 tons) mines ton.353.10 - —
4K, c.l. (20 tons), mines ton.190.30 - —
4M, c.l. (20 tons), mines ton.190.30 - —
4T, c.l., (20 tons), mines ton.171.60 - —
4Z, c.l. (20 tons), mines ton.171.60 - —
5D, c.l. (20 tons), mines ton.135.00 - —
5K, c.l. (20 tons), mines ton.135.00 - —
5M, c.l. (20 tons), mines ton.122.35 - —
5R, c.l. (20 tons), mines ton.115.50 - —
6D, c.l. (30 tons), mines ton.82.00 - —
7D, c.l. (30 tons), mines ton.72.00 - —
7F, c.l. (30 tons), mines ton.68.25 - —
7H, c.l. (30 tons) mines ton.58.00 - —
7K, c.l. (30 tons), mines ton.48.30 - —
7M, c.l., (30 tons), mines ton.42.00 - —
7R, c.l. (30 tons), mines ton.41.00 - —
7RF, c.l. (30 tons), mines ton.42.00 - —
7T, c.l., (30 tons), mines ton.39.00 - —
7TF, c.l. (30 tons), mines ton.42.00 - —
8S, c.l. (30 tons), mines ton28.35 - —
Asbestos c.l. prices are in U. S. funds, l.c.l. lots $4 per ton higher.
Asphalt, gilsonite, black jet, bgs., c.l., mines ton.37.00 - —
select, 350° F. fusing pt., bgs., c.l., mines ton.38.00 - —
270°-295°F., fusing pt., bgs., c.l., mines ton.37.00 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton.32.00 - —
Manjak, No. 10, crude, dms., works lb. .06¼ - —
Petroleum, cut-back, tanks, tankwagon, refy. gal. .09 - —
emulsion, tanks, tankwagon, refy. gal. .09½ - —
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton.21.00 - —
85-300 penetration, tanks, tankwagon, refy ton.20.00 - —
Aspirin, (see Acid acetylsalicylic).
Atropine, USP, bots.....oz. 3.90 - 4.50
Sulfate, USP, bots.....oz. 2.25 - 2.65

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units. 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barberry root bark, bgs..... lb. .28 - .30
Barbital, USP, 100-lb. dms..... lb. 4.50 - —
Sodium, USP, dms..... lb. 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works ton.100.00 - —
smaller lots, works....ton.110.00 - —
Chlorate, kgs., works..... lb .32 - .36
l.c.l., l.t.l., frt. equald ton.285.00 - —
Chloride anhyd., bgs., c.l., works. ton.165.00 - —
t.c.l., works.....ton.175.00 - —
NF, cryst., 100 lb. dm..... lb. .22 - —
tech., cryst., bgs., c.l., works. 100 lbs. 6.50 - —
t.c.l., works.....100 lbs. 7.00 - —
Chromate, bgs., frt. equald lb. .35 - —
Dioxide (see Barium peroxide).

100th Anniversary

One hundred years ago, chemists August Cahours and August Wilhelm Von Hofmann published a method for producing allyl alcohol. They considered their discovery merely a laboratory curiosity and foresaw no useful applications for it.

From this humble beginning, however, allyl alcohol has grown into an adaptable chemical, finding ever-increasing application in industry and agriculture. Today, allyl alcohol is used in the manufacture of such products as resins, weed killers and flavorings.

Shell Chemical pioneered in the production of high-purity allyl alcohol and allyl chloride. Both chemicals are available, in drum to tank-car quantities, at conveniently located Shell Chemical distribution centers.

Your Shell Chemical sales representative will be glad to help you explore the possibilities of allyl alcohol and allyl chloride in your own operations. *Write for specifications and quotations.*

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Barium hydrate, cryst., bgs., c.l., t.l., frt. equald ton 208.00 - —
l.c.l., l.t.l., frt. equald ton 218.00 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., t.l. dlvd lb .16 - —
l.c.l. l.t.l. dlvd lb .17 - —
Oxide, grd. dms., c.l., t.l., frt equald ton 275.00 - —
Peroxide dms. frt equald lb 20 - —
Stearate ctns., c.l., frt alld lb .39 - —
l.c.l. same basis lb .40 - .44
Sulfate, tech. (see Barytes and blanc fixe)
X-ray dms lb .15 - .15½
Sulfide, dms., c.l., works ton 85.00 - —
l.c.l. works ton 95.00 - —
Barytes, Southern, off-color, bgs., mines ton 25.00 - —
95-97% bgs. mines ton 25.00 - —
water-grd. paper bgs., c.l., St Louis ton 49.00 - —
ex-whse. N. Y. ton 70.85 - —
Bauxite bulk mines ton 6.75 - 10.00
Bay leaves (see Laurel leaves)
Belladonna leaf bls lb .35 - .37
root bls lb .45 - .50
Bentonite dom. 200 mesh, bgs. c.l. mines ton 14.00 - —
imp. Italian, white, high gel., bgs 5-ton lots, ex whse ton 84.00 - —
1 ton lots, ex whse ton 87.00 - —
low gel bgs. 5-ton lots, ex whse ton 82.35 - —
1 ton lots ex whse ton 85.35 - —
Benzal chloride, chys. works lb .44 - —
benzaldehyde NF dms lb .74 - 1.05
tech., chys., dms., t.l. lb .43 - —
smaller lots lb .44 - —
Benzene (see Benzol)
Hexachloride, 25% and 99% gamma isomer (see Lindane)
tech., high gamma, dms. c.l., dlvd., gamma unit-lb. .0075 - .008
t.c.l., works, gamma unit-lb. .009 - .0095
low gamma, dms., c.l. dlvd., gamma unit-lb. .0075- - —
t.c.l. works, gamma unit-lb. .009 - —
Benzidine hydrochloride, bbls. c.l., frt. alld., 100% basis lb. 1.19 - —
l.c.l., same basis lb. 1.21 - —
Sulfate, tech. frt alld., 100% basis lb. 1.21 - —
Benzocaine dms lb 3.48 - 3.50
Benzol, coaltar, pure or nitration tanks works:—
Bethlehem Pa. gal. .36 - —
Birmingham district gal. .36 - —
Chicago district gal. .36 - —
Cleveland district gal. .36 - —
Geneva, Utah gal. .36 - —
Johnstown Pa. gal. .36 - —
Lackawanna, N. Y. gal. .36 - —
Lone Star, Texas gal. .36 - —
Lorain, Ohio gal. .36 - —
Middletown, Ohio gal. .36 - —
Minnequa, Colo. gal. .36 - —
Philadelphia district gal. .36 - —
Pittsburgh district gal. .36 - —
Sparrows Point, Md. gal. .36 - —
Syracuse, N. Y. gal. .36 - —
Terre Haute, Ind. gal. .36 - —
Youngstown, Ohio gal. .36 - —
Benzophenone, dms lb 1.40 - 1.70
Benzotriazole, tech. dms., 1,000-lb. lots, works lb. 2.25 - —
Benzotrichloride, chys., 1,000-lb. lots or more, frt. equald lb. .18 - —
smaller lots, frt. equald lb. .20 - —
Benzoyl chloride, chys. dms., c.l., works, frt. equald lb .22 - —
t.c.l. same basis lb .23 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —
Peroxide, purif. fib dms., 50 to 1,000-lb. lots, works lb .98 - 1.08
Benzyl acetate, f.f.c., ctns., dms lb. .60 - 1.00
Alcohol (see Alcohol, benzyl)
Benzoate, NF, f.f.c., 500 lb. dms. lb .62 - —
Chloride, tech., 13-gal. chys., dms., c.l., works, frt. equald. lb. .23 - —
t.c.l. same basis lb .24 - —
tank trucks dlvd. Metropolitan area lb. .21 - —

A 2½c differential is quoted on benzyl chloride in 5-gal. chys. in steel dms. prices were 1½c lower.

Cinnamate, ctns. lb. 3.60 - 3.90
Formate, ctns. lb. 1.80 - 2.10
Isoeugenol, ctns. lb. 9.85 - —
Propionate, bots. lb. 1.55 - 1.65
Salicylate, bots. lb. 1.60 - 1.85
Benzylidine acetone, bots. lb. 1.75 - 1.80
Chloride (see Benzal chloride)
Berberine bisulfate, ctns. lb. 35.00 - 36.25
Hydrochloride, bots lb 35.00 - 36.25
Betaine, anhyd., 10,000-lb. lots, frt. alld lb. 3.00 - —
Hydrochloride, 5,000-lb. lots, frt. alld lb. 1.60 - —
Monohydrate, 10,000-lb. lots, frt. alld lb. 2.60 - —
Betagammapicoline (see b,g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine)
Betaphenylethy amine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical)
Biotin, cryst. bots gram 10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, oxys. lb 5.11 - —
Hydroxide, dms lb 4.65 - —
Metal, bxs. ton lots lb 2.25 - —
Nitrate, cryst., dms. lb 2.10 - 2.17
Oxide, anhyd., dms lb 4.47 - 5.05
Oxychloride, dms lb 4.37 - 4.42
Phenolsulfonate, fib dms lb 5.22 - —
Subcarbonate, USP, dms. lb 3.20 - —
Subgallate, NF, fib. dms. lb. 3.15 - —
Subiodide, fib. dms lb 5.37 - —
Subnitrate, NF, dms lb 2.65 - —
Subsalicylate, USP, dms lb 3.50 - —
Bismuth-ammonium citrate, USP, powd. jars lb 4.22 - —
Bisphenol-A, c.l., t.l., frt. alld lb. .29¾ - —
l.c.l., same basis lb. .30¾ - —
Black, acetylene, imp., bgs., c.l., duty and freight extra lb. .17 - —
cs., l.c.l., ex whse lb. .22½ - .26
Ash (see Barium sulfide)
Bone, dms., l.c.l., frt. alld lb. .17 - .23¼

Pacific coast bone black prices 2c. per lb higher.

Carbon, channel, pigment, high color, beads, ctns., c.l., works. lb. .72 - —
t.c.l., dlvd. or whse lb. .78 - —
medium color, uncompressed, bgs. c.l., works. lb. .12 - —
t.c.l. dlvd or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs. c.l., works lb. .074 - —
t.c.l., works lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns. t.c.l., whse lb 16 - —
high abrasion, bulk, c.l., works lb .0750 - —
bgs. c.l. works lb. .0790- —
t.c.l., dlvd. or whse lb. .122 - .125

Black, carbon, furnace, high modulus, bgs., c.l., works lb. .0550- —
ctns. t.c.l. whse lb 0950 - —
semi-reinforcing bgs. c.l., works lb 045 - —
bgs. ctns. t.c.l. whse lb 085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs. c.l. works. lb .13¼ - —
t.c.l. works lb .13½ - —
Lamp, bgs., c.l., works lb .16 - .45
Mineral, bgs., works lb .0160 - .067
Blackberry root bark, bls lb .45 - —
Black haw root bark, bls lb .63 - .65
tree bark, bls lb. .45 - .50
Blanc fixe, dry, byproduct, bgs. c.l. works ton 190.00 - —
t.c.l. works ton 200.00 - —
direct process, bgs. c.l. works ton 110.00 - —
t.c.l. works ton 120.00 - —
N. Y. whse ton 135.00 - —
Blood, dried, 16-16½% ammonia, unit-ton. 5.25 - —
high grade, unground, 16-17% ammonia, bgs. Chicago unit-ton. 5.00 - —
soluble, bgs., c.l. lb. .13 - .14
t.l. lb. .15 - .17
l.t.l. lb. .15½ - .35½
Bloodroot, bls lb .48 - .50
Blue, alkali, dry, 250-lb. bbls. dlvd. N. of Penn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb 2.10 - —
toner, 125-lb. bbls. litho flushed, same basis lb 1.20 - —

Blue, Chinese, bbls., c.l., same basis. lb. .50 - —
t.c.l. ton lots, same basis lb .51 - —
smaller lots, same basis lb .52 - —
Cobalt, genuine, bbls. same basis. lb 4.90 - —
Imitation (see Blue, ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda)
Methyl violet toner, molybdated, PMA, bbls. same basis lb 2.75 - —
tungstated, PTMA, bbls., same basis lb 4.00 - 4.15
Milori, bbls., c.l., same basis lb. .50 - .55
t.c.l., ton lots, same basis lb. .51 - .56
smaller lots, same basis lb. .52 - .57
Peacock, fugitive, 100% color strength, bbls. same basis. lb .85 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls. same basis lb 3.00 - —
water dispersable, bbls. same basis lb 1.54 - —
Potash, CP, bbls. same basis lb .56 - —
Prussian, insoluble, soluble, bbls., c.l., same basis lb. .50 - —
t.c.l. ton lots, same basis lb .51 - —
smaller lots same basis lb .52 - —
Soda, CP, bronze, bbls., c.l., same basis lb. .50 - —
t.c.l. ton lots same basis. lb. .51 - —
smaller lots same basis. lb. .52 - —

Blue, ultramarine, cobalt type, dry or pulp, bbls., same basis lb. 39½ - .33
jobbing type, bbls. same basis lb 19 - —
regular types, dry, bbls. same basis lb 22½ - .35
Victoria toner, molybdated, PMA, bbls lb 4.10 - —
tungstated, PTMA, bbls lb 5.35 - —

Blue, dry colors, dlvd. prices 5c higher Ala., Fla., Ga., La. (Shreveport Dist.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.

Blue, vitriol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works, E ton 60.00 - —
Los Angeles ton 82.50 - —
Bone phosphate, defluorinated (see Di of lime (see Calcium phosphate, tribasic), precipitated (see Calcium phosphate tribasic, NF precip.)
Borax, tech., anhyd., 99%, bgs., c.l., works ton 80.50 - —
ton lots ex whse, N. Y. or Chi ton 132.25 - —
smaller lots, works ton 137.25 - —
bulk, c.l., works ton 71.50 - —
cryst., 99½%, bgs., c.l., works ton 69.25 - —
ton lots ex whse, N. Y. or Chi ton 121.00 - —
smaller lots, same basis ton 126.00 - —

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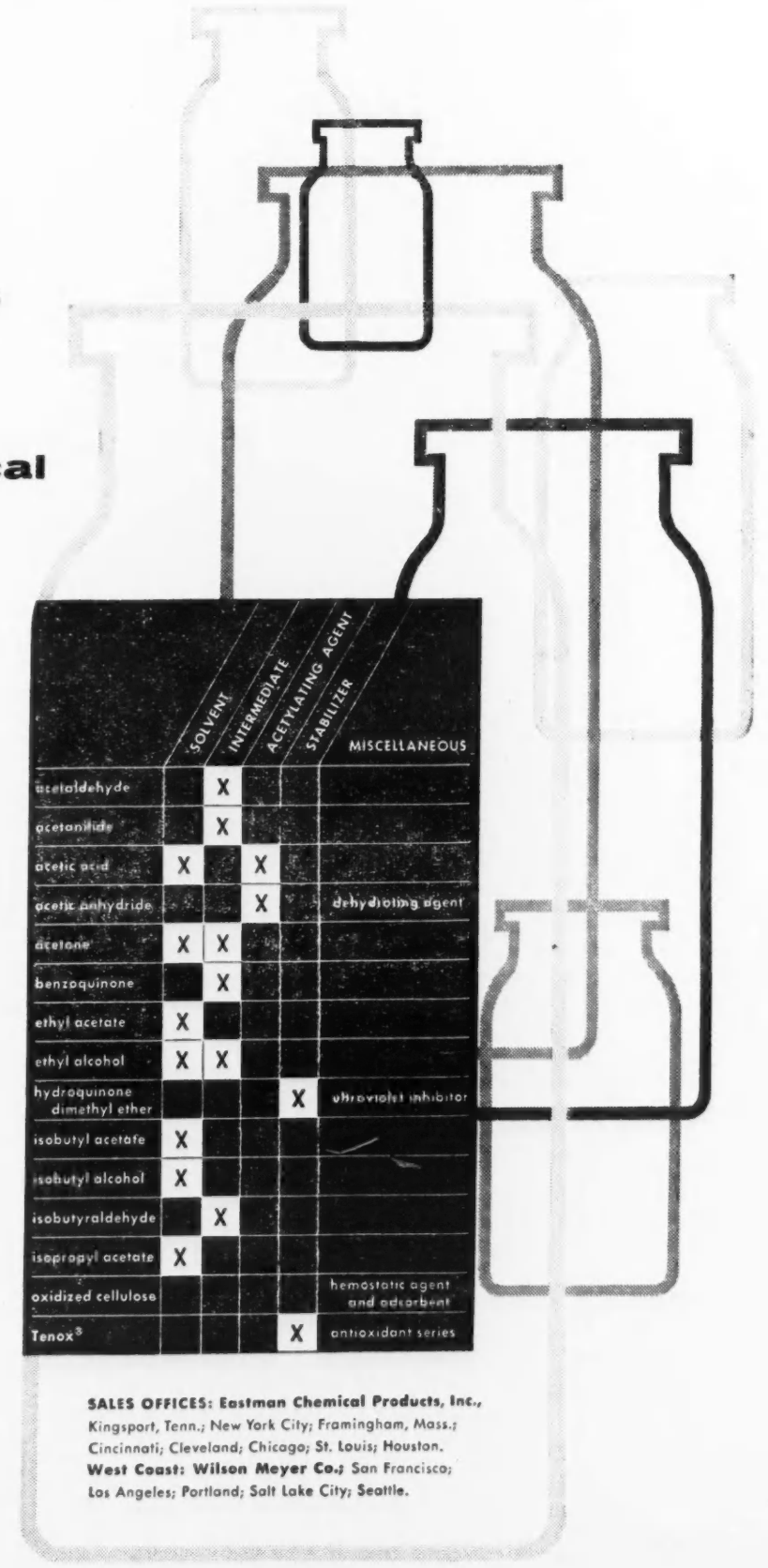
for the

pharmaceutical

industry



For information about these and other Eastman chemical products, call our nearest sales representative or write to Eastman Chemical Products, Inc., Chemicals Division, Kingsport, Tennessee

Eastman
CHEMICAL PRODUCTS, INC.
KINGSPORT, TENNESSEE
Subsidiary of EASTMAN KODAK COMPANY

SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tenn.; New York City; Framingham, Mass.; Cincinnati; Cleveland; Chicago; St. Louis; Houston. **West Coast: Wilson Meyer Co.;** San Francisco; Los Angeles; Portland; Salt Lake City; Seattle.

Borax, tech., gran., decahydrate, 99½%, bgs., c.l., works ton 43.25 - —
ton lots ex whse. N. Y. Chi ton 95.00 - —
smaller lots, same basis. ton 100.00 - —
bulk, c.l., works ton 36.75 - —
pentahydrate, 99½%, bgs., c.l., works ton 57.75 - —
ton lots ex whse. N. Y ton 109.50 - —
smaller lots, same basis. ton 114.50 - —
bulk, c.l., works ton 51.50 - —
powd., 99½%, bgs., c.l., works. ton 48.25 - —
ton lots ex whse. N. Y. or Chi ton 100.00 - —
smaller lots, same basis. ton 105.00 - —
USP borax $15 per ton higher.

Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse, pt. lb. .18 - .24
l.c.l. same basis lb .19 - .26
Borneol, cns lb 2.50 - 4.5
Boron trifluoride gas, cyls., truck-load, works lb. .62 - —
t.t.l. works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).

Bromine, purif, cs., c.l., t.t., dlvd. E. of Rockies lb. .32 - —
l.c.l., same basis lb. .34 - .39
ret. dms., c.l., t.l. dlvd E of Rockies lb. .31 - —
l.c.l., same basis lb. .31 - .33
tanks, same basis lb. .22½ - —
Bromochloromethane dms., c.l., frt. equald lb. .43 - —
l.c.l., same basis lb. .50 - —
Bromoform, pharmaceutical grade, bots lb 1.62 - 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 - 5.70
Bronze powder aluminum (see Al).
Brown, iron oxide pure bgs., c.l., works lb. .14¼ - —
l.c.l. works lb. .14½ - —
Oxide, metallic bgs., works lb. .04 - —
Sienna, burnt, paper bgs., c.l., works lb. .06¼ - .17¼
l.c.l., works lb. .06½ .17½
raw, paper bgs., c.l., works lb. .06¼ - .16¼
l.c.l., works lb. .06½ - .16½
Umber, burnt, American, c.l., works. lb. .07 - .07¾
l.c.l., works lb. .07¼ - .08
Turkey type, bgs., c.l., Boston, Bethlehem Easton, Pa., Hiwassee, Va N Y lb. .07¾ —
raw, American, bgs., works lb. .07½ - .08¼
Turkey-type bgs., works lb. .06¾ - .07
Vandyke, bbls. works lb. .09½ - .12
Brucine, cns., 100-oz. lots oz. .20 .25
Sulfate, NF cns. 100-oz lots oz. .15 .20
Buchu leaves, bls lb. 1.30 - —

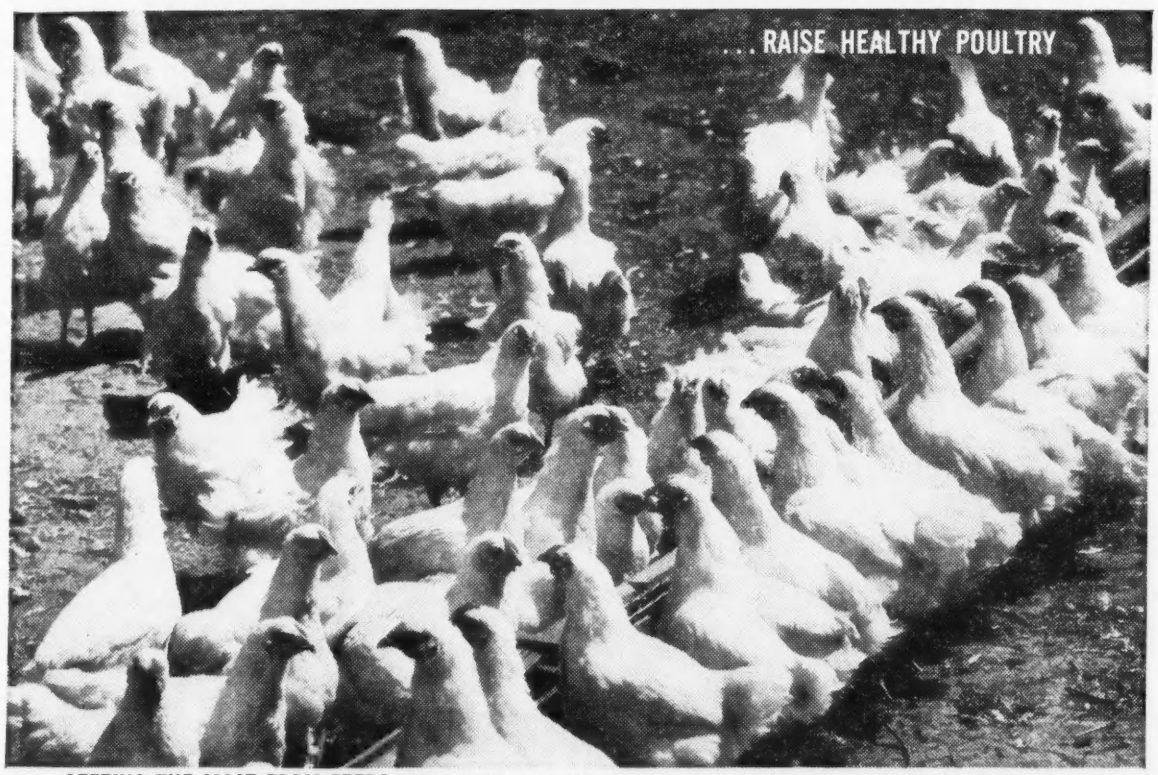
Butadiene, refd., cyls., c.l. refy lb. .21 - —
l.c.l., refy. lb. .22 - —
tanks, refy lb. .15 - —
Butane, indust., tanks, group 3 gal. .04½ - —
n-Butyl acetate, ferment. dms., c.l., frt. alld lb. .16½ - —
l.c.l., same basis lb. .17½ - —
tanks, same basis lb. .14 - —
syn., dms., c.l., dlvd. E lb. .16½ - —
l.c.l., same basis lb. .17½ - —
tanks, same basis lb. .14 - —
sec-Butyl acetate, syn. dms., c.l., dlvd. E lb. .13½ - —
l.c.l., same basis lb. .14¼ - —
tanks, same basis lb. .11¾ - —
Butyl alcohol (see Alcohol, n-Butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l. works lb. .37½ - —
l.c.l., works lb. .38¼ - —
Ether, dms., c.l. works lb. .33 - —
l.c.l., works lb. .33¾ - —
tanks, works lb. .31 - —
Lactate, dms., c.l., frt, alld. E. of Rockies lb. .42½ - —
l.c.l., same basis lb. .43½ - —
tanks, same basis lb. .40 - —
Laurate, dms., works lb. .39 - —
Methacrylate dms. c.l. t.l. works. lb. .55 - —
l.c.l., works lb. .55½ - —
Oleate, refd., dms., l.c.l., works. lb. .32 - —
Phenylacetate, dms lb 4.50 4.60
Phthalate (se Dibutyl phthalate).
Stearate dms., c.l., frt. equald. l.c.l., same basis lb. .26½ - —
Butylamine (see mono- di- and tri-). lb. .25 - —
6-tert-Butyl-m-cresol, dms., c.l., works lb .55 - —
l.c.l. works lb. .56 - —
tanks, works lb. .54 - —
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p cresol).

p-tert-Butylphenol, bgs., c.l., works. lb. .27½ - —
l.c.l. lb. .28½ - —
Butyraldehyde, dms., c.l., dlvd lb. .22 - —
l.c.l., dlvd lb. .23 - —
tanks, dlvd lb. 19½ —
Butyric ether (see Ethyl butyrate).

C

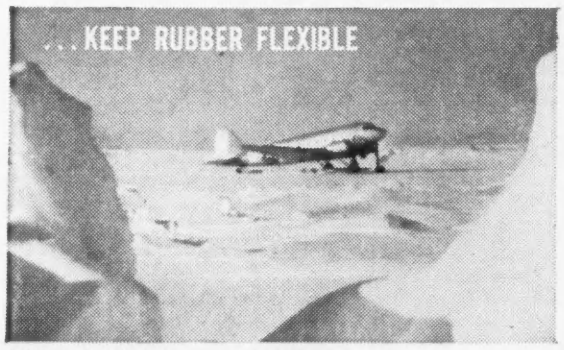
Cacao butter (see Cocoa butter).
Cadmium iodide 25-lb fib dms lb. 6.75 - 7.00
Metal ingots or sticks, cs. dlvd. lb. 1.70 - —
Caffeine, USP, nat., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, dms. 100-lib lots or more lb 2.80 - —
syn., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, 100-lb lots or more lb 2.80 - —
Citrated USP dms. 100-lb lots or more lb 2.70 - —
Calamine, USP, dms lb. .34 - —
Calciferol, cryst., vials, 1-kilo lots, works gram. .60 - —
25 to 100 gram lots works. gram 65 - —
(in edible oil (see Viosterol)
Calcium p-aminosalicylate, fib dms., 100 lbs or more, frt. adjusted. lb 4.00 - —
Arsenate dealers bgs. c.l., frt alld lb .09 - .09¼
Bromide, NF, 100 lbs or more lb .92 - —
Carbide, standard generator size, dms., c.l., dlvd ton 134.40 - —
Carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works ton 10.50 - —
chalk, precipitated, 325 mesh bgs., c.l., works ton 32.00 -34.00
l.c.l., same basis lb. .10 - .10½
water-grd., ½ to 10 microns bgs., c.l., works ton 30.00 - —
10 to 20 microns, bgs. c.l., works ton 17.00 -18.00
precip. dense bgs. c.l. works ton 32.50 - —
l.c.l., works ton 42.50 - —
medium, bgs., c.l. works ton 38.00 - —
l.c.l. works ton 48.00 - —
surface treated bgs., c.l. works ton 37.50 - —
l.c.l. works ton 47.50 —
ultrafine, bgs., c.l., works. ton 110.00 -160.00
l.c.l. works ton 120.00 -175.00
Chloride, cryst. purif., dms lb 27 —
flake 77-80%, paper bgs. c.l. works. frt equald ton 29.00 —
liquor, 40%, tanks frt equald. ton 12.35- —
pellets bgs. c.l., works ton 35.40 - —
powd., bgs., c.l., works ton 35.00 - —
solid, 73-75% dms., c.l., frt equald ton 27.50 - —
l.c.l. works frt equald ton 34.00 -71.00
USP gran. dms lb .32 —
Chromate, bgs., frt. equald lb. .29½ - .30
Cyanide, dms. c.l., dlvd. E. of Rockies lb .20 - —
l.c.l., same basis lb .24 - .55
Cyclamate, 100-lb. fib. dms lb. 2.95 - —
Gluconate, AA, bbls., dms lb. .74 - .76
USP bbls., dms lb 67 - 69
Hydride, dms., works lb. 2.15 - 3.00
Hypochlorite, high test, 45-lb. cs., dlvd. E. of Rockies cs 22.95 -25.10
100-lb. dms., same basis dm. 30.80 -34.50
Hypophosphite, dms., ton lots or less lb 90 - .93
Iodide, jars lb 4.52 —
Lactate NF dms., 10,000-lb lots or more works lb .36 - .40
Mandelate, USP dms. works lb. 2.10 - 2.25
smaller lots, works lb .41 - .48
Naphthenate liq., 4% Ca., dms., frt equald lb. .27¼ - —
Nitrate, fertilizer grade bgs., c.l., Los Angeles ton 46.00 - —
tech., 5-dm. lots, works lb. .13 - —
Pantothenate, dms., bots., frt. adjusted gram. .045 - —
Para-aminosalicylate (see Calcium p-Aminosalicylate)
Phenolsulfonate, dms lb 70 - —
Phosphate, dibasic, USP, bgs., c.l., frt. equald 100 lbs. 7.75 - —
l.c.l., frt. equald 100 lbs 8.50 —
feed grade, 18½%P bgs., c.l., t.l., frt equald ton 79.55 -83.25
l.c.l., frt. equald ton 89.55 -93.25
21% P, bgs., c.l. t.l., frt equald ton 94.50 —
l.c.l., frt. equald ton 99.50 -104.50
monobasic, bgs., 10,000-lb. lots, frt. equald 100 lbs. 6.90 - —
smaller lots, same basis, 100 lbs 7.40 - —
tribasic, NF precip., bgs., c.l., works, frt equald 100 lbs 8.75 - —
l.c.l., frt equald 100 lbs 9.00 - —
Phytate, bgs., works lb. .50 - —
Resinate, precip. dms, frt. alld., works lb. .30½ - —
Silicate, hydrated, bgs., c.l., works. lb. .06 - —
l.c.l., works lb. .06½ - —
paint grade (see Wollastonite)
Stearate, ctns., c.l lb. .37 - —
l.c.l lb. .38 - .42
Sulfate (see Gypsum)
Calomel, USP, powd., dms lb. 5.42 - —
Camphene 46° m.p. dms., incl., c.l., works lb. .15 - —
l.c.l. same basis lb. .16½ - —
tanks, same basis lb. 12½ - —
Chlorinated, 67-69% (see Toxaphene)
Camphor, monobromated, NF, dms. kgs lb. 3.50 - —
nat. USP powd. cs. 100-lb lots. lb. .60 - .65
tablets, 1-oz., ½-oz cs lb. .85 - .90
syn., tech., 1 bbls or more lb. .48 - —
USP, gran., powd., bbls., 2,000-lb. lots lb. .59 - —
1,000-lb. lots lb. .60 - —
smaller lots lb. .61 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb 2.00 2.05
powd., bxs lb 2.25 2.30
Russian, bgs lb 4.00 4.05
powd., bxs lb. 4.35 4.40
Capsicum (see Pepper red).
Oleoresin, NF, from domestic pepper, dms lb 4.50 - 5.25
from African pepper, dms lb. 4.35 5.00
Caraway seed, Dutch, bgs. lb. .17 - —
Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbon black (see Black, Carbon).
Dioxide, indust., wholesale, bulk, dlvd, Metropolitan area ton 73.00 -115.00
cyls., same basis lb. .08 .09
solid, same basis lb. .035 .040
Disulfide, 55-gal. dms., c.l., works, frt. equald. to competitive points lb. .07 - —
l.c.l., same basis lb. .08½ - .09
5-gal dms., 30 dms. to c.l., same basis lb. .13 - —
less than 30 dms lb. .16 - —
tanks, dlvd. lb. .0545- —

HOW *HERCULES* HELPS...



GETTING THE MOST FROM FEEDS—Dalpac*, Hercules di-tert-butyl-para-cresol, is an antioxidant for livestock and poultry feeds. Also known as BHT, this chemical protects vital nutrients and assists in the full utilization of important vitamins. By preserving vitamins A and E and other essential nutrients during processing and storage of feeds, Dalpac prevents poultry disease, promotes healthy growth.

*Hercules trademark



LOW-TEMPERATURE PERFORMANCE—For seals, hose, deicing boots, and other parts on this plane, rubber vulcanized with Di-cup® maintains its flexibility at lower temperatures than is possible with sulfur-curing systems. Di-cup, Hercules dicumyl peroxide, is a versatile curing agent for many polymers.

CHRISTMAS ORNAMENTS may fall off the tree and break, but these new ones will not shatter, leaving jagged pieces that could cause injury. That's because they are enveloped in a tough, clear coating containing Hercules® nitrocellulose. (Ornaments made by Coby Glass Products Co., Lonsdale, R. I.)

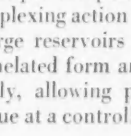
HERCULES POWDER COMPANY
936 Market St., Wilmington 99, Del. Sales Offices in Principal Cities
SYNTHETIC RESINS, CELLULOSE PRODUCTS, CHEMICAL COTTON, TERPENE CHEMICALS, ROSIN AND ROSIN DERIVATIVES, CHLORINATED PRODUCTS, OXYCHEMICALS, EXPLOSIVES, AND OTHER CHEMICAL PROCESSING MATERIALS.

G56-10

HERCULES
CHEMICAL MATERIALS FOR INDUSTRY

Carbon tetrachloride, CP, consumers, dms., l.c.l., frt. alld	lb.	.12¼ -	.14½
tech., consumers, dms., c.l., frt. alld	lb.	.11¼ -	—
l.c.l., frt. alld	lb.	.13½ -	—
tanks, frt. alld	lb.	.10 -	—
Carboxymethyl cellulose (see CMC).			
Carbromal NF, dms., 100-lb. lots, works	lb.	4.00 -	4.25
smaller lots, works	lb.	4.10 -	4.75
Cardamom seed, bleached, "A"	lb.	3.20 -	—
"B"	lb.	3.10 -	—
decorticated, Ceylon, cs	lb.	3.00 -	—
Guatemalan, cs	lb.	3.00 -	—
green, Alleppey, bgs	lb.	2.15 -	—
Ceylon, bgs	lb.	2.15 -	—
Carmine, No. 40, NF, bulk, 100-lb. lots or more, dlvd	lb.	16.80 -	—
smaller lots, dlvd	lb.	16.90 -	17.30
Carotene, tech., 1,350,000 A units per gram, tins, 5-10 kilo lots, dlvd	gram.	.295 -	—
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works	million units.	.12 -	—
microcrystalline in oil, 400,000 A units per gram dms. dlvd.	million units.	.21 -	—
b-Carotene, pure crystalline, 1,600,000 A units to 1,670,000 per gram., cns	gram.	.35 -	—
in vegetable oil, 400,000 A units per gram cns.	gram.	.084	—
Carvol, bots	lb.	4.50	8.00
Cascara sagrada bark, bulk	lb.	.33 -	—
Casein dom. acid precip. standard, bgs. 10,000 lb lots or more, shipt. point	lb.	.32	Nom.
premium bgs., 10,000-lb lots or more, shipt. point	lb.	.38	Nom.
Imp. acid-precip., grd., Argentine, bgs., c.l., duty paid	lb.	.23¼ -	.24
New Zealand, duty paid	lb.	.24	.25
Cashewnut shell liquid, treated, dms., c.l. Newark, N J	lb.	.22 -	—
ton lots, same basis	lb.	.23 -	—
dm lots same basis	lb.	.25 -	—
Cassia, Batavia, "A," bls.	lb.	.22 -	—
"B"	lb.	.21 -	—
"C"	lb.	.20 -	—
Corinje "A"	lb.	.20½ -	—
"B"	lb.	.19½ -	—
"C"	lb.	.18 -	—
Castor beans, bgs. f.o.b. Brazil	ton.	175.00	-180.00
Oil (see Oil, castor)			
Pomace, bgs., c.l., works	ton.	35.00	-40.00
Castoreum, nat., cns	lb.	5.25	-30.00
syn. cns	lb.	9.00	—
Catechol CP, cryst., fib dms., works	lb.	2.17½ -	—
resub., dms., works	lb.	4.29½ -	—
Catnip leaves, Southern, bls	lb.	.75 -	—
Celery seed, French, bgs	lb.	.41 -	—
Indian, bgs.	lb.	.21 -	—
Cellulose acetate, flake, powd., ctns., bgs. 100 lb. lots or more, dlvd E	lb.	.35	.46
Acetate-butyrate, powd., 17% butyryl content, bgs., dlvd. E.	lb.	.545 -	.555
27% butyryl content, bgs., dlvd E	lb.	.595	.605
38% butyryl content, bgs., dlvd E	lb.	.545	.555
50% butyryl content, bgs., dlvd E	lb.	.585	.595
half-second bgs. dlvd E.	lb.	.545	.555
Scrap (see Pyroxylin scrap)			
Cerium chloride dms. dlvd	lb.	.35	—
Hydrate 74% CeO_2, fib dms., 100-lb. lots or more	lb.	1.44 -	—
77% CeO_2 fib dms., 100-lb lots or more	lb.	1.74 -	—
Oxalate, NF, bgs., works	lb.	1.00 -	—
Oxide, optical grade bgs., 50-lb lots or more, dlvd	lb.	1.85	1.98
smaller lots, dlvd	lb.	2.03	2.23
Chalk (see Calcium carbonate).			
Chamomile flowers, Hungarian style, cs	lb.	.78 -	—
Roman, cs.	lb.	2.00 -	—
Charcoal, activated, NF, fib. dms., c.l., works	lb.	.25	.32
5-ton lots, works	lb.	.26½	.32½
smaller lots, works	lb.	.27	.50
Bone (see Black, bone)			
Hardwood, bulk, lump, c.l., f.o.b. plant	ton.	55.00 -	—
briquets, bulk, c.l., f.o.b. plant	ton	75.00	-80.00
5 lb. paper bags, c.l., same basis	ton.	108.00	—
10 lb. paper bags, c.l., same basis	ton	95.00	-98.00
25 lb. paper bags, c.l., same basis	ton	82.00	-88.00
40-lb paper bgs., c.l., same basis	ton	81.00	-85.00
Pinewood, gran., bgs., c.l., works, South	ton.	57.00 -	—
l.c.l., works South	ton	57.00	-67.00
lump, bgs., c.l., works, South	ton	53.50	—
l.c.l., works, South	ton.	56.50	-71.00
bulk, c.l., works, South	ton	38.00	—
t.l., works, South	ton	41.00	—
Chestnut extract, Italian, solid, 60% tannin, bgs. exdock, plus duty	lb.	.09⅛ -	—
powd., 70% tannin, bgs., exdock, plus duty	lb.	.10⅝ -	—
Chloral tech. 94% min. dms., c.l., works	lb.	.23 -	—
l.c.l., works	lb.	.24 -	—
tanks, multiple units, 5 cars, works	lb.	.21	—
Hydrate, USP, 40 lb. jars, 1,000-lb. lots	lb.	1.00 -	—
500-lb lots	lb	1.03 -	—
100-lb lots or less	lb	1.05 -	—
Chloramine T, NF, bbls, works	lb	.75	1.00
Chlordan, agricultural dms. c.l., frt alld	lb.	.65	—
l.c.l. 5,000 to 10,000-lb. lots, frt alld	lb.	.66 -	—
clarif., dms., c.l., frt alld	lb.	.69 -	—
l.c.l. 5,000 to 10,000-lb. lots, frt alld	lb.	.70 -	—
Chlorinated paraffin, 42%, dms., c.l., frt alld	lb.	.16¼ -	—
l.c.l. same basis	lb.	.17¼ -	—
70%, dms., c.l., same basis	lb.	.18¾ -	—
l.c.l., same basis	lb.	.19¾ -	—
Rubber, 5, 10, 20 cps. ctns., c.l., works	lb.	.55 -	—
l.c.l., works	lb.	.56 -	—
125, 1,000 cps., ctns., c.l., works,	lb.	.65 -	—
l.c.l., works	lb.	.66 -	—
Chlorine, liq., cyls., c.l., works, frt. equald	lb.	.10¼ -	—
l.c.l. Metropolitan area	lb.	.11¾	.13
tanks, single units, works, frt. equald	100 lbs.	3.15 -	—
multiple units, 5 cars, works, frt. equald	100 lbs.	4.05 -	—
3 cars, same basis	100 lbs.	4.25 -	—
2 cars, same basis	100 lbs.	5.25 -	—
1 car, same basis	100 lbs.	7.25 -	—
4-Chloro-2-aminotoluene, fused, bbls.	lb.	1.45 -	—
m-Chloroaniline, dms., min. 10,000 lbs. or over, frt. alld	lb.	75 -	—
less than 10,000 lbs., same basis	lb.	.80 -	—
tanks, same basis	lb.	.73 -	—
o-Chloroaniline, dms., c.l., frt. alld.	lb.	.65 -	—
l.c.l., same basis	lb.	.67 -	—
tanks, same basis	lb.	.63 -	—
p-Chloroaniline, dms. c.l., frt. alld.	lb.	.77 -	—
l.c.l., same basis	lb.	.79 -	—
o-Chlorobenzaldehyde, dms., t.l., works	lb.	1.05 -	—
l.t.l., works	lb.	1.20 -	—
p-Chlorobenzaldehyde, dms., c.l., works	lb.	1.95 -	—
Chloroform, tech. dms., c.l., dlvd. E	lb.	.18 -	—
l.c.l., same basis	lb.	.19 -	—
tanks, same basis	lb.	.17 -	—
USP, dms	lb.	.30 -	—
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis	lb.	.81 -	—
powd., dlvd. E., 100% basis	lb.	86 -	—
4-Chloro-2-nitroaniline powd. dlvd. E	lb.	.80 -	—
o-Chlorophenol dms. c.l. frt. equald.	lb.	.37 -	—
l.c.l., same basis	lb.	.38 -	—
p-Chlorophenol, dms., c.l., frt. equald.	lb.	.37 -	—
l.c.l., same basis	lb.	.38 -	—
Chloropicrin, coml., bots	lb.	1.50 -	—
cyls., 180 lbs., frt alld	lb.	.95 -	—
100 lbs. same basis	lb.	.97 -	—
25 lbs. same basis	lb.	1.22 -	—
Choline bitartrate fib. dms., frt. adjusted	lb.	1.25	1.35
Chloride fib. dms. frt. adjusted.	lb.	1.25	1.35
Dihydrogen citrate fib. dms., frt. adjusted	lb.	1.25 -	1.35
Chromium acetate, soln., 7½%, bbls., works	lb.	.09¼ -	—
cbys., works	lb.	.11¼ -	—
Fluoride, bbls., works	lb.	.51 -	.52
Green (see Green, chrome).			
Oxide (see Green chromium oxide)			
Trioxide NF, bots	lb.	.82 -	.89
Yellow (see Yellow chrome).			
Cinchona bark, NF, red, broken, bgs	lb.	.35 -	.40
yellow broken bgs	lb.	.35 -	.40
Cinnamon, Ceylon, No. 2, bgs	lb.	.98 -	—
"0000," bgs., afloat	lb.	1.08 -	—
Cinnamon, Ceylon, No. 2, bgs	lb.	.90 -	.91
"0000", bgs., afloat	lb.	1.07 -	—
Citral, bots., cns	lb.	4.90 -	5.90
Citronellal, bots., dms.	lb.	2.85 -	3.50
Citronellol, bots., dms.	lb.	4.30 -	4.60
Civet, artif., bots	lb.	13.75 -	15.00
nat., bots	oz.	8.50 -	15.00
Clay, ball dom., airfloated, bgs., c.l., Tenn	ton.	19.50 -	—
crushed shed moisture, bulk, c.l. Tenn	ton.	10.00 -	—
purif., bgs., c.l., Tenn	ton.	20.50 -	—
imp., airfloated, bgs., c.l., Atl. port	long-ton.	42.00	-45.00
lump bulk Atl. port	long-ton.	27.00	-30.20
China, dom., dry-grd. airfloat, 99% 325 mesh, bgs., c.l., Georgia, works	ton.	10.00 -	—
l.c.l., Georgia, works	ton.	15.50 -	—
300 mesh., bgs., c.l., Georgia, works	ton.	13.50	-14.50
l.c.l., same basis	ton.	35.00	-36.00
Clay, China, imp., white, lump, bulk, c.l., ex-dock, Phila, Portland, Me	gross ton.	20.00	-35.00
powd., bgs. c.l. ex dock	net ton	50.00	—
l.c.l., ex whse	net ton	60.00	-65.00
Clove, Madagascar, bgs	lb.	.42½ -	—
Zanzibar, bgs	lb.	.47 -	—
CMC, crude, 96%, low or medium, vis. bgs. or fib dms., 23% 99% lbs. dlvd E. 100% basis	lb.	.39½	41
less than 23,000 lbs., dlvd E. 100% basis	lb.	41½	43
65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis	lb.	.39½ -	.41
l.c.l. dlvd E 100% basis	lb	41½	43
purif., high vis (see Gum Cellulose)			
standard, low or medium vis., bgs. 23,000 lbs. or over, works, frt alld	lb	.55 -	—
smaller lots same basis	lb	.57	—
CMC prices W of the Rockies are 2c per lb. lower and are on a works basis.			
Coaltar crude resale for soins. dms. c.l., ex-whse	gal.	.30½ -	—
l.c.l., ex-whse	gal.	.33½ -	—
tanks, ex works	gal.	.154 -	.165
refd., resale, industrial, dms., c.l., ex-whse	gal.	.30½ -	.35
l.c.l., ex-whse	gal.	.33½ -	.39
tanks, works	gal.	.16½ -	.20½

DOW



"Locked in the Versene claw"—that's the fate of metal ions when they encounter chelating agents. They become trapped within the inner ring structure of a newly formed compound where they cannot hinder processing or mar product quality. This phrase is taking on new meaning for many industries, as the chemistry of chelation is reviewed.

The Chemistry of Chelation: Part IV

Applications in specific industries · Synthetic rubber manufacture
Soaps and synthetic detergents · Textile processing · A new kind of chemistry?

As has been discussed previously, the Versene® series and Versenol® series chelating agents will inactivate practically all metal ions they contact in solution. The pH of the solution or of the finished product influences the choice of agent. To control iron in caustic solutions, look to Versene T®; in alkaline solutions—Versene Fe-3 Specific®; in acid solutions—the Versene® series. Or if solutions drift from one pH value to another, an effective Versene combination can be devised to completely complex metal ions present. However, when it is desirable, the claw-like holding power of chelation can be reversed. In polymerization reactions, for example, ferrous iron ions can be released gradually at a predetermined rate.

SYNTHETIC RUBBER MANUFACTURE

Erratic polymerization has been a costly bottleneck in producing synthetic rubber. Now, research has disclosed that this situation can be corrected by means of a reproducible redox catalyst activation system using Versene Fe-3 alone or with pyrophosphate. A blend of ethylenediaminetetraacetic acid and N, N-di-(2-hydroxyethyl) glycine sodium salt, Versene Fe-3 has proved adequate at less than 1/100 of a part per 100 parts of monomer. The complexing action of Versene Fe-3 locks large reservoirs of ferrous ions in the chelated form and releases them gradually, allowing polymerization to continue at a controlled rate for a longer period. Results: Uniform control of trace metal catalysts is assured; plant operations smooth out; product nonuniformities practically disappear.

SOAPS AND SYNTHETIC DETERGENTS

It should be re-emphasized that a judicious choice of chelating agent must be exercised for a particular application. If the right Versene or Versene combination is properly used in a detergent formulation, processing is improved, exceptional water-softening and detergent properties are realized. For unlike dehydrated phosphates, which lose effectiveness in alkaline media and at high temperatures, the Versene remains stable; is many times more effective; and can be used in formulating all types of soaps and synthetics—liquid, bar, powdered, or flake. It is a simple matter, for example, to include Versene in liquid soaps. Here, the chelation action provides the same clarity with hard water as can be achieved with distilled or rain water. Also, the soap comes out lighter colored and protected against rancidity and change of color. When the soap is stored in glass, Versene inhibits silica deposition.

Or consider solid detergents. Versene makes possible a bar soap that can resist water of 10 grains hardness! pH is an important factor. Versene 9 is recommended, since large amounts may be added without changing the pH of the product.

TEXTILE PROCESSING

The textile industry is using chelation to advantage too . . . in kier boil and bleach operations . . . to produce softer, stronger fabrics that take dye better. For, in complexing metal ions, chelation results in a new compound that cannot be precipitated by common agents. In kier boiling operations, Versene T inactivates iron and other metal ions which discolor the cloth, and removes rust and corrosion deposits from the processing equipment. Often a larger amount of Versene T may be necessary due to the rust build-up in the system. Later, the amount is reduced and equipment remains clean, thus making possible cleaning and bleaching of the fabric producing high-quality goods through metal ion control.

A NEW KIND OF CHEMISTRY?

Is chelation the answer to all ion contamination difficulties? Despite its many successful applications, the answer is sometimes "no". For, remarkable as it is—in locking up metal ions to improve production and product quality—chelation does not solve all problems in every application. But wherever metal ions do pose a problem, investigation is worthwhile. And we'll help in every possible way. To see if you can put the Versene or Versenol products to profitable use, write Technical Service and Development, Dept. SC 9114P-2 THE DOW CHEMICAL COMPANY, Midland, Michigan.

you can depend on DOW CHEMICALS DOW

Cobalt acetate, 23.7% ... lb. 1.20 - —
Carbonate, 46% powd., bgs., dlvd. lb. 1.85 - —
Chloride, 24.2% Co. dms., dlvd. lb. 1.20 - —
Hydrate 60-61% Co. dms. dlvd lb. 2.62 —
Linoleate, fused, 8½% Co., dms. lb. .75¾- —
liq., 6% Co. dms lb. .61 —
Metal, 97-99% kgs., ex whse lb. 2.60 —
Naphtenate, liq., 6% Co., dms., dlvd lb. .48¼- —
Nitrate, 20.1% Co., bbls., dlvd. lb. 1.00 - —
Oxide, black, 72½-73½% Co., kgs lb. 1.96 - —
70-71% Co. kgs lb. 1.90 - —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 - —
Resinate, fused 3% Co. dms. lb. .29¾- —
Sulfate cryst., 21% Co., dms., dlvd lb. .79 - —
monohydrated, 33% Co., dms., dlvd lb. 1.32 - —
Tallate, 6% Co. dms. dlvd lb. .43¾- —
Cocaine, USP, cns. 100-oz. lots oz. 17.80 —
Hydrochloride, cns., 100-oz. lots, oz. 13.75 —
Cocilana bark, bls. lb. .25 - —
Cocoa butter, bgs. lb. .69 - .72
Codeine, NF, cns. 100-oz. lots oz. 13.25 —
Hydrochloride, cns., 100-oz. lots oz. 11.75 - —
Phosphate, USP, cns., 100-oz. lots, oz. 10.25 - —
Sulfate, USP, cns., 100-oz. lots oz. 10.75 - —
Codliver oil (see Oil, codliver).

Cohosh root, black, bls lb. .20 - .22
blue, bls lb. .20 - .22
Colchicine, USP, bots., cns. oz. 29.00 -35.50
Colchicum root, bls lb. .35 - —
seed, bgs lb. .60 - —
Collodion, USP, dms. lb. .32½- —
flexible, dms lb. .34 - —
Colocynth, pulp, bls lb. .55 - —
Colombo root, bls lb. .15 - .16
Condurango bark, bales lb. .26 - —
Copaiba balsam, cns., dms lb. .85 - —
Copper acetate, bbls, c.l. works lb. .53 - —
l.c.l., works lb. .54 - —
Carbonate, 55% bgs., c.l., works, lb. .35¾- —
l.c.l., works lb. .37¾- —
Chloride, cupric, anhyd., dms., works lb. .45¼- .45¾
cryst., dihydrate, dms., works, lb. .30¾- .31¼
dried, dms., works lb. .39 - .39½
cuprous, dms., works lb. .4540- .4890
Cyanide, tech., bbls. 20,000-lb. lots or more lb. .77½- —
1,000-lb. lots or more lb. .78½- —
smaller lots lb. .80½- —
Gluconate, dms lb. 3.15 3.35
Hydrate, dms., c.l., frt. alld. E. of Miss lb. .52½- —
l.c.l., same basis lb. .53 - —
Metal, electrolytic, dlvd., Valley basis lb. .36 - —
Naphthenate, liq., 8% Cu., dms., frt. alld lb. .24½- —
Nitrate, tech., cryst., bbls., works, lb. .33¼- —
Oleate, solid, 9% Cu dms., works lb. .45 - —

Copper oxide, black, bbls., 100-2,000-lb. lots, works lb. .54 - —
red, 97%, USN Type I, bbls., 100-5,000 lb. lots lb. .64½- —
90%, USN Type II, bbls., 100-5,000 lots or more, works, lb. .62½- —
Oxychloride, dms., c.l., works lb. .53 - —
l.c.l., works lb. .53½- .63½
Quinolinolate, tin., dms lb. 4.25 4.50
Resinate, precip., dms., frt. alld., lb. .31½- —
Sulfate, CP, gran., dms., works, lb. .2080- —
cryst., 99%, bgs. c.l., works, 100 lbs. 13.90 - —
l.c.l., same basis 100 lbs. 14.90 -16.90
monohydrated, 35%, dms., c.l., works 100 lbs. 23.75 - —
l.c.l., works 100 lbs. 24.50 - —
tribasic, dealers, bgs., c.l. works, frt. equald 100 lbs. 30.00 - —
l.c.l., same basis 100 lbs. 31.00 -34.00
Undecylenate dms lb 2.00 3.00
Copra, Atlantic, Gulf ports, c.i.f. ton. 165.00 - —
Pacific ports, c.i.f. ton. 160.00 - —
Coriander seed, Moroccan, bgs lb. .12 - —
Roumanian, bgs lb. .09 - .09½
Yugoslavian, bgs lb. .08½- —
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.26 - —
l.c.l. 100 lbs. 7.51 - —
Syrup, 42°, non-ret. dms., c.l. 100 lbs. 7.34 - —
l.c.l. 100 lbs. 7.49 - —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate, NNR bulk gram 3.50 3.55
Cottonseed meal, 41% bgs., Memphis ton. 57.00 -58.00
Cramp bark, NF, bls lb. .85 - .90
Coumarin, NF, cryst., dms lb. 3.60 - —

Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots., cbys. lb. 3.05 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 —
soln., 80%, tanks, works gal. .2068- —
refd., dms., c.l., works gal. .42 - .44
l.c.l., same basis gal. .53 - .55
tanks, same basis gal. .33 - .35
Wood, beachwood, cbys., dms lb. 1.60 - 1.65
hardwood, NF, bots., cbys lb 1.30 1.35
pinewood, dms., c.l., incl lb. .0561 —
l.c.l., incl lb. .0634- —
N. Y. whse lb. .0745- —
tanks, works lb. .0460- —
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt equald lb. .1625- —
l.c.l., same basis lb. .1675- —
tanks, same basis lb. .145 —
USP, non-ret., dms., c.l., same basis lb. .1775- —
l.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 - —
m-Cresol, 95-98% dms., c.l., works, lb. .60 - —
l.c.l., works lb. .61 - —
m-p-Cresol, 5-95% 3°C., dms., c.l., frt. equald lb. .1775- —
l.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 - —
2-97% 2°C., dms., c.l., frt. equald, lb. .2175- —
l.c.l., same basis lb. .2225- —
tanks, same basis lb. .200 - —
o-Cresol, m.p. 30.5° C. and over, ret. dms., c.l., frt. equald lb. .16¾- —
l.c.l., same basis lb. .17¼- —
tanks, same basis lb. .15 - —
30°-30.49° C., ret. dms., c.l., frt. equald lb. .16¼- —
l.c.l., same basis lb. .16¾- —
tanks, same basis lb. .14½- —
29°-29.9° C., ret. dms., c.l., frt. equald lb. .15¾- —
l.c.l., same basis lb. .16¼- —
tanks, same basis lb. .14 - —
25°-28.9° C., dms., c.l., frt. equald, lb. .14¾- —
l.c.l., same basis lb. .15¼- —
tanks, same basis lb. .13 - —
p-Cresol, 98% dms., c.l., dlvd lb. .50 - —
l.c.l., dlvd lb. .51 - —
tanks, dlvd lb. .49 - —
Methyl ether, cns lb. 1.80 2.05
Crotonaldehyde, 91-93% dms., l.c.l., works lb. 24¼- .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 - —
l.c.l., works 100 lbs. 14.25 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .29 - —
Cubeb berries, XX, NF, bgs lb. .70 - —
powd., cs lb. .85 - —
Cumene, dms., c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .11 - —
l.c.l., works lb. .30 - —
Cumin seed, Iranian, bgs lb. .18½- —
Moroccan, bgs lb. .22 - .23
Turkish, bgs lb. N.P.
Cutch extract, 55% tannin, bgs., ex dock, duty extra lb. 08½- —
Cyanamide, fertilizer mixing grades, 21% N, gran., bgs., Niagara Falls, Ont., contract ton 55.00 - —
pulv., 21% N, bgs., works unit-ton 2.75 - —
Indust. grade, bgs., c.l., works ton 75.00 - —
l.c.l., works ton 96.00 - —
6-16 mesh, dms., c.l., works ton 120.00 - —
l.c.l., works ton 140.00 - —
Cyclohexane, 99% tech., dms., c.l., works gal. .70 - —
l.c.l., works gal. .72 - —
tanks, works gal. .53 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E gal. .28 - —
l.c.l., works, same basis lb. .29 - —
tanks, works, same basis lb. .24 - —
Cyclohexanone, tech., dms., c.l., works lb. .32½- —
l.c.l., works lb. .35 - —
tanks, works lb. .29 - —
Cyclohexene, min. 98% b.r., 82.5°C-85°C, 360-lb dms., c.l., works lb. .55 - —
l.c.l., same basis lb. .60 - —
tanks, same basis lb. .52 - —
Cyclohexylamine, dms., c.l., works, lb. .46½- —
l.c.l., works lb. .48½- —
tanks, works lb. .45 - —
Cyclopropane, CP, 2-lb. cyls., works, cyl. 48.00 - —
6-oz. cyls., works cyl. 12.00 - —
USP, hospitals, cyls., 40-gal. lots, gal. .38 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

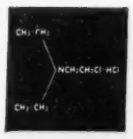
2-4-D, tech., dms., c.l., works, frt. equald lb. .37 - —
l.c.l., same basis lb. .42 - .46
Butyl ester, dms., c.l., works lb. .40 - —
l.c.l., same basis lb. .45 - .49
tanks, same basis lb. .39 - —
Isopropyl ester, dms., c.l., works, lb. .40 - —
l.c.l., works lb. .45 - .49
tanks, works lb. .39 - —
Dandelion root, bls lb. .32 - —
DDD, tech., flake, grd., fib., dms., c.l., works lb. .45 - —
l.c.l., works lb. .46 - —
DDT, powder, bgs., c.l., works, frt. equald lb. .23 - .27
smaller lots, same basis lb. .24 - .28
fib., dms., c.l., same basis lb. .24 - .28
smaller lots, same basis lb. .25 - .29
1-Decanol, tech., dms., c.l., dlvd lb. .41 - —
l.c.l., dlvd lb. .43 - —
tanks, dlvd lb. .38½- —
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works ton. 49.50 - —
17%P, paper bgs., c.l., t.l., works ton. 58.00 - —
18% P, paper bgs., c.l., t.l., works ton. 64.10 - —
Prices of defluorinated phosphate in bulk $3 per ton less than bag carlot prices.
Degras, common, bbls lb. .10 - .12
neutral, bbls lb. .21 - .23
d-Desoxyephedrine, hydrochloride, bots lb. 24.00 -25.00
dl, bots lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 9.28 - —
l.c.l. 100 lbs. 9.43 - —
canary, dark, paper bgs., c.l. 100 lbs. 9.12 - —
l.c.l. 100 lbs. 9.27 - —
light, paper bgs., c.l. 100 lbs. 9.02 - —
l.c.l. 100 lbs. 9.17 - —
white, paper bgs., c.l. 100 lbs. 8.86 - —
l.c.l. 100 lbs. 9.01 - —
Corn dextrin in cotton bgs. 15c. per 100 lbs higher.
Potato, imported, bgs lb. .10½- .11

specially prepared

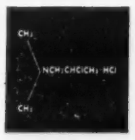
INDIVIDUALIZED INTERMEDIATES

DIALKYL AMINO ALKYL CHLORIDES provide a versatile group of intermediates for pharmaceutical synthesis. Continuously produced by Michigan Chemical Corporation for many years, individual members of this intermediates family provide manufacturers with a convenient method for introducing the dialkyl amino alkyl radical into organic nuclei to produce substituted amines, esters, and ethers. All are available in commercial quantities. Write for samples, technical data, and prices.

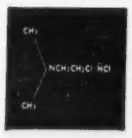
for pharmaceutical synthesis



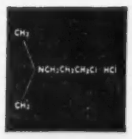
beta-Diethylaminoethyl Chloride Hydrochloride. (DEC). $(CH_3CH_2)_2$ NCH_2CH_2Cl. HCl. A granular solid. Specially suited for use as an intermediate in organic chemical manufacture, including the production of antispasmodic agents and other pharmaceuticals.



beta-Dimethylaminoisopropyl Chloride Hydrochloride. $(CH_3)_2$ $NCH_2CHClCH_3$. HCl. (DMIC). An organic intermediate similar in appearance and properties to DEC and DMC. Specially prepared for manufacture of analgesics and other pharmaceuticals. Other potential uses in organic synthesis.



beta-Dimethylaminoethyl Chloride Hydrochloride. (DMC). $(CH_3)_2$ NCH_2CH_2Cl. HCl. A granular solid. Specially prepared for use in manufacture of antihistaminics and other pharmaceuticals. Other potential uses in organic synthesis. Relatively non-toxic in hydrochloride form.



gamma-Dimethylaminopropyl Chloride Hydrochloride. $(CH_3)_2$ $NCH_2CH_2CH_2Cl$. HCl. (DMPC). A white powder of singular purity. A versatile intermediate for pharmaceutical and organic syntheses, available exclusively from Michigan Chemical.

Other widely used intermediates supplied by Michigan Chemical Corporation include Hydrobromic Acid, Methyl Bromide, Ethyl Bromide, Monobromobenzene, Trimethylene Chlorobromide, Phosphorous Tribromide and Cyclopentyl Bromide. Write for booklet "Individualized Intermediates."

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BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS

Dextrose, USP, dms	lb.	.17¾-	—
Diacetone (see Alcohol diacetone).			
Diacetyl, flavor grade, bots	lb.	4.25	5.50
Di-sec-amyl phenol, dms., c.l., works	lb.	.32	—
l.c.l. works	lb.	.33	—
tanks, works	lb.	.29½	—
Di-tert-amyl phenol, dms., l.c., works	lb.	.32	—
l.c.l. works	lb.	.33	—
tanks, works	lb.	.29½	—
o-Dianisidine fib dms	lb	2.00	—
Dibenzyl sebacate, dms., c.l., works.	lb.	.89¾	90
l.c.l. same basis	lb.	.90¼	.91
tanks, same basis	lb	88	—
p-Dibromobenene bgs., 500-lb. lots.	lb.	.55	—
Dibutyl phthalate dms., c.l., dlvd. E	lb.	.32½	—
l.c.l., same basis	lb.	.33½	—
tanks, same basis	lb.	.30	—
Sebacate, dms., c.l., works	lb.	.66	—
l.c.l. works	lb.	.66½	67
tanks, works dlvd	lb.	.64	.64½
Tartrate dms works frt alld	lb	.64	—
Dibutylamine dms, c.l. dlvd	lb.	.55½	—
l.c.l. same basis	lb.	.56½	—
tanks same basis	lb	53	—
2,6-Di-tert-butyl-p-cresol, food grade, dms, t.l. c.l. dlvd	lb	1.20	—
t.t.l. dlvd	lb.	1.24	—
tech., dms., c.l.	lb.	.91	—
l.c.l.	lb.	.95	—
tanks	lb.	.86	—
Dicaprvl phthalate dms. c.l. dlvd.,	lb.	.31	.32
l.c.l. dlvd	lb.	.32	.33
tanks, dlvd	lb.	.29½	—
Sebacate dms., c.l., works	lb.	.63	—
l.c.l. works	lb.	.62½	.64
tanks, works	lb.	.61	—
2,5-Dichloroaniline dms., works	lb	.83	—
o-Dichlorobenzene dms. c.l., frt. alld E	lb	.12¼	—
l.c.l. same basis	lb.	.13¼	—
tanks, same basis	lb.	.10¾	—
p-Dichlorobenzene, dms., c.l., f.o.b., works	lb.	.12	.14½
l.c.l. same basis	lb.	.17	—
1,4-Dichlorobutane dms. c.l. or t.l., works	lb	.33½	—
l.c.l. or t.t.l. works	lb	.34	—
tanks, works	lb	.32	—
Dichlorodiphenyltrichlorothane (see DDT).			
Dichloropentanes dist., dms., c.l., works	lb.	.05	—
l.c.l. works	lb.	.06	—
tanks works	lb.	.03	—
Dicyclohexylamine dms. c.l., works.	lb.	.51	—
l.c.l. works	lb.	.51¾	—
tanks, works	lb.	49½	—
Dicyclohexyl phthalate, fib, dms., c.l. works, frt. alld	lb.	.58¼	.59
l.c.l. same basis	lb.	.59¼	.60
Didecyl phthalate dms. c.l., works.	lb.	.34	—
l.c.l. same basis	lb.	.35	—
tanks same basis	lb	.31½	—
Dieldrin dms. frt alld	lb	1.80	—
l.c.l. frt alld	lb.	1.85	—
Diethanolamine dms. c.l., dlvd. E.	lb.	.27	—
l.c.l., same basis	lb.	.28	—
tanks, same basis	lb.	.24½	—
Diethyl carbonate dms., c.l., frt. alld	lb.	.47	—
l.c.l. same basis	lb.	.48	—
tanks, same basis	lb.	.45	—
Ethanolamines, dms. c.l., dlvd.	lb.	.69½	—
l.c.l., dlvd	lb.	.70½	—
tanks dlvd	lb	.67	—
Oxalate dms., c.l., frt. alld	lb.	.42	—
l.c.l same basis	lb.	.43	.45
tanks same basis	lb	.40	—
Phthalate, dms., c.l., dlvd	lb.	.30	.30½
l.c.l., dlvd.	lb.	.31	.31½
tanks, dlvd.	lb.	.27½	.28
Sulfate, dms., c.l., works	lb.	.19	—
l.c.l. works	lb.	.19¾	—
tanks, works	lb.	.17	—
Diethylamine, dms., c.l., dlvd. E	lb.	.51	—
l.c.l., same basis	lb.	.52	—
tanks, same basis	lb.	.48½	—
N,N-Diethylaniline, dms., c.l., frt. alld	lb.	.57	—
l.c.l., same basis	lb.	.58	—
tanks, same basis	lb.	.55	—
Di-2-ethylhexyl adipate (see Dioctyl adipate).			
Phthalate (see Dioctyl phthalate).			
Diethylene glycol dms., c.l. dlvd E.	lb.	.17¾	—
l.c.l. same basis	lb.	.18¾	—
tanks, same basis	lb.	.15¼	—
Boriborate dms. l.c.l.	lb.	.31	—
Diethyl ether, dms., c.l., works.	lb.	.47½	—
l.c.l., works	lb.	.48¼	—
Monobutyl ether, dms., c.l., dlvd. E	lb.	.30¾	—
l.c.l. dlvd. E	lb.	.31¾	—
tanks, dlvd E	lb.	.28¼	—
Acetate, dms., c.l., works	lb.	.30¼	—
l.c.l., works	lb.	.31	—
tanks, dlvd E	lb.	.28¼	—
Monoethyl ether, dms., c.l., dlvd	lb.	.22½	—
l.c.l., dlvd	lb.	.23½	—
tanks, dlvd	lb.	.20	—
Acetate, dms., c.l., works	lb.	.27¼	—
l.c.l., works	lb	.28	—
tanks, dlvd. E	lb.	.25¼	—
Monomethyl ether, dms., c.l., dlvd	lb.	.20½	—
l.c.l., dlvd	lb.	.21½	—
tanks, dlvd.	lb.	.18½	—
Diethylenetriamine, dms., c.l., dlvd. E	lb.	.44	—
l.c.l., dlvd. E	lb.	.45	—
tanks, dlvd. E	lb.	.41½	—
Diethylstilbestrol, USP, bots., 10-kilo lots	kilo.	100.00	147.50
1 kilo lot	kilo.	110.00	152.50
Digitalis leaves, USP, dom. dms.,	lb.	1.20	—
Digitoxin, USP, bots	gram.	4.75	5.25
Diglycol laurate, dms	lb.	.32¾	.34
Stearate, dms., ton lots	lb.	.26	.28
Dihexyl sebacate dms., c.l., works.	lb.	.64	—
l.c.l. works	lb.	.64½	.65
tanks, works	lb.	.62	—
Dihydrazine sulfate, dms., works.	lb.	1.10	1.25
Dihydrostreptomycin hydrochloride, bulk	gram.	.07	.0750
Sulfate, bulk	gram.	.07	.0750
1,2-Dihydroxy anthraquinone, dms., works	lb.	2.75	—
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms	lb.	2.55	—
tech. dms	lb.	1.09	—
Di-isobutyl ketone, dms., c.l., dlvd.	lb.	.17	—
l.c.l., dlvd	lb.	.18	—
tanks, dlvd	lb.	.14½	—
Phthalate, dms., c.l., dlvd. E	lb.	.31½	—
l.c.l., same basis	lb.	.32½	—
tanks, same basis	lb.	.29	—
Di-isobutylene, dms., c.l., dlvd. E	lb.	.10	—
l.c.l. dlvd. E	lb.	.11	—
tanks, dlvd E	lb.	.08	—
Di-iso-octyl phthalate, dms., c.l., dlvd	lb.	.31	—
l.c.l., same basis	lb.	.32	—
tanks, same basis	lb.	.28½	—
Sebacate, dms., c.l., works	lb.	.63½	—
l.c.l., works	lb.	.64½	—
tanks, works	lb.	.61	—

Di-isopropanolamine, dms., c.l., dlvd.	lb.	.23¼	—
l.c.l., same basis	lb.	.24¼	—
tanks, same basis	lb.	.20¾	—
Di-isopropylamine, dms, c.l., dlvd. E. of Rockies	lb.	.50½	—
l.c.l., same basis	lb.	.51½	—
tanks, same basis	lb.	46	—
Dill seed, dewhiskered, bgs	lb.	.09¼	—
nat., bgs.	lb.	.08	—
Dimethyl anthranilate, cns	lb.	4.35	5.10
Chloroacetal, dms, c.l., works	lb.	.45	—
l.c.l. works	lb.	.50	—
tanks, works	lb.	.40	—
Ethanolamines, anhyd., dms., c.l., dlvd	lb.	1.225	—
l.c.l. dlvd	lb.	1.235	—
tanks, dlvd	lb.	1.20	—
70% dms. c.l. dlvd. 100% basis, contained amines	lb.	.68½	—
l.c.l. dlvd. 100% basis	lb.	.69½	—
tanks, dlvd 100% basis	lb.	.66	—
Hydroquinone, dms	lb.	2.20	2.25
Phthalate, dms., c.l., works	lb.	.31	—
l.c.l., works	lb.	.32	—
tanks, works	lb.	.28½	—
Sebacate dms., c.l. works	lb.	1.275	—
l.c.l. dlvd	lb.	1.285	—
tanks, works	lb.	1.25	—
Sulfate, 55-gal ret. dms., c.l., works	lb.	.15	—
l.c.l., works	lb	.16	—
10-gal ret. dms. l.c.l. works.	lb.	.16½	—
Dimethylamine 25% soln dms., c.l., frt equald	lb.	.42	—
l.c.l. frt equald	lb.	.42½	—
tanks, frt equald	lb	.33	—
40% soln, dms, c.l. frt. equald	lb.	.39	—
l.c.l. frt equald	lb.	.39½	—
tanks frt equald	lb	.35	—
N,N-Dimethylaniline dms. c.l., frt. alld	lb.	.32	—
l.c.l., frt. alld	lb.	.33	—
tanks, frt. alld	lb.	.30	—

N,N-Dimethylformamide dms, works	lb	.34	.39
tanks, works	lb	.32	—
2,4-Dinitroaniline, dms., 1,000-lb. lots, same basis, frt. equald	lb.	.68	—
smaller lots, frt equald	lb.	.71	—
m-Dinitrobenzene, 85°C., dms	lb.	.22	—
89°C., dms	lb	.24	—
2,4-Dinitrochlorobenzene, crystallizing at 46½°C., dms., c.l., frt alld E	lb	15¼	—
l.c.l., frt. alld E	lb.	.15¾	—
tanks, frt alld E	lb.	.15	—
2,4-Dinitrochlorobenzene, crystallizing at 48°C., dms., c.l., frt alld E	lb	20¼	—
l.c.l. frt alld E	lb	20¾	—
tanks, frt. alld. E	lb	20	—
2,4-Dinitrophenol, bbls	lb	.37	—
2,4-Dinitrotoluene, oily, dms	lb	11	—
refd., 63°C., dms	lb	23	—
Dioctyl adipate, dms., c.l., works.	lb.	.42½	—
l.c.l., works	lb.	.43½	—
tanks, works	lb	.40	—
Phthalate, dms., c.l., frt. alld	lb.	.31	—
l.c.l., frt. alld.	lb.	.32	—
tanks, frt. alld.	lb.	.28½	—
Sebacate, dms., c.l., works	lb.	.60½	—
l.c.l. works	lb	.61½	.62½
tanks works dlvd	lb	.58	.58½
smaller lots, frt. alld	lb.	.63	—
1,4-Dioxane, dms., c.l., works	lb	2.83¼	—
l.c.l., same basis	lb	2.91¼	—
tanks, same basis	lb	.27	—
Dip oil (see Tar acid oil).			

Dipentaerythritol, bgs., l.c.l., works.	lb.	35	—
Dipentene dest-dist., dms., c.l., works	gal.	47	—
l.c.l., works	gal.	.52	—
ex-whse.	gal.	.62	—
steam-dist., dms., c.l., works, South	gal	59	—
dlvd. N. Y	gal.	67	—
tanks, works, South	gal.	.45	—
Diphenyl, bbls. c.l., works	lb	15	—
l.c.l., works	lb	16	—
Diphenyl in bags ¼c lower			
Oxide, perfume grade, cns	lb	56	61
Phthalate, dms., c.l. works	lb	51¾	—
l.c.l. works	lb	.53¾	—
Diphenylamine, refd. flake, bgs, c.l. works, frt. equald	lb.	.33	—
l.c.l., works, frt. equald	lb.	.35	—
fused, tanks works frt equald	lb.	.31	—
tech. fused, tanks, works, frt equald	lb.	.30	—
Diphenylguanidine, bgs., dms., ton lots, frt. alld	lb.	.52	—
smaller lots, frt. alld.	lb.	.53	—
Diphenylhydantoin-sodium USP	dms	lb	5.00	5.60
Dipropylene glycol, dms, c.l., frt. alld	lb.	17¼	—
l.c.l. same basis	lb.	18¼	—
tanks, same basis	lb.	15¼	—
Monomethyl ether, dms., c.l., dlvd E	lb	20	—
l.c.l. same basis	lb	21	—
tanks same basis	lb	18½	—

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Di-o-Tolyguanidine—Ethyl Cinnamate

Di-o-tolylguanidine, dms., ton lots, frt. alld	lb.	.62	—
smaller lots, frt. alld	lb.	.63	—
Divi-divi, 45% tannin, bgs., bls., c.l., U. S. ports, exdock	ton.	78.00	Nom.
Divinylbenzene 20-25% dms. c.l., works, frt equald	lb.	.20	—
l.c.l. same basis	lb.	.21	—
tanks, same basis	lb.	.19	—
50-60% dms. c.l. works, 100% basis	lb	1.00	—
l.c.l. works 100% basis	lb	1.05	—
Dodecylbenzene dms., c.l. frt. alld	lb	.14	—
l.c.l. same basis	lb.	.15	—
tanks, same basis	lb.	.12	—

Dyes, coaltar, certified colors for food drugs and cosmetics 500-lb and 1-lb. lots, dlvd:

Blue FD & C No. 1	lb	15.65	-17.60
No. 2	lb	15.65	-17.60
Green FD & C, No. 1	lb	15.65	-17.60
No. 2	lb	19.60	-22.85
No. 3	lb	21.30	-35.90
Red, FD & C, No. 1, cns	lb	5.90	7.85
No. 2	lb	3.30	4.10
No. 3	lb	19.60	-22.85
No. 4	lb	5.55	7.50
Violet FD & C, No. 1, cns	lb	15.65	-17.60
Yellow FD & C, No. 1, cns	lb	9.15	-11.05
No. 5	lb	3.30	4.10
No. 6	lb	3.30	4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, dlvd:—

Black D&C, No. 1	lb	10.50	-10.95
Brown D&C No. 1	lb	15.65	-16.10
Green D&C, No. 5	lb	15.65	-16.10
No. 6	lb	15.65	-16.10
No. 7	lb	14.35	-14.80

Dyes coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb lots, dlvd:—

Orange D&C, No. 3	lb	10.50	-10.95
No. 4	lb	19.60	-20.05
No. 5	lb	5.25	5.70
No. 17	lb	10.50	10.95
No. 18	lb	23.55	-24.00
No. 19	lb	15.00	-15.45
No. 21	lb	3.10	3.60
No. 22	lb	10.50	-10.95
No. 33	lb	24.20	-24.65
No. 33	lb	17.00	-17.45
Violet, D&C, No. 2	lb	15.65	-16.10
Yellow D&C No. 7	lb	10.50	-10.95
No. 8	lb	10.50	-10.95
No. 10	lb	12.05	-13.50
No. 11	lb	13.05	-13.50

Dyes coaltar certified colors for drugs and cosmetics, external use, 1 lb. lots, works, 25-50 lb. lots dlvd:—

Blue Ext. D&C, No. 1, cns	lb	15.65	-16.10
Green, Ext., D&C, No. 1, cns	lb	15.65	-16.10
Red, Ext. D&C, No. 1, cns	lb.	13.05	-13.50
Yellow Ext. D&C, No. 1, cns	lb.	10.50	-10.95

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd, No

20 Chrysoidine Y, dustless	lb.	.89	—
27 Fast light, orange 2G	lb.	1.09	—
31 Phloxine 2G	lb.	.89	—
36 Yellow 2G	lb.	1.00	—
40 Orange II extra, conc	lb.	1.29	—
57 Fuchsine 6B	lb.	1.31	—
79 Scarlet 2R	lb.	.98	—
151 Orange AD	lb.	.67	—
161 Orange RR	lb.	.80	—
176 Fast red A	lb.	1.18	—
179 Rubine XX, conc	lb.	1.25	—
180 Blue F4B	lb.	1.11	—
185 Brilliant scarlet 3RN, conc.	lb.	1.02	—
202 Chrome blue black R, conc.	lb.	.91	—
561 Brown B	lb.	2.45	—
581 Black EB, 200%	lb.	1.13	—
203 Chrome black I	lb.	.94	—
208 Fast blue SR	lb.	1.10	—
216 Chrome red B	lb.	.92	—
234 Brown Y	lb.	1.08	—
246 Blue black, extra, conc	lb.	1.16	—
275 Milling red 3R conc	lb.	1.62	—
289 Navy blue 3R, conc	lb.	1.44	—
299 Black F conc	lb.	1.86	—
304 Neutral black 2B, conc.	lb.	2.21	—
326 Fast scarlet 4BNC	lb.	1.80	—
332 Bismark brown RX, conc., dustless	lb.	1.16	—
365 Brilliant yellow, conc	lb.	3.11	—
382 Scarlet B	lb.	2.20	—
401 Diazo black BHD	lb.	.79	—
406 Blue 2B, extra conc	lb.	1.30	—
419 Red FC	lb.	1.23	—
420 Brown M	lb.	1.19	—
448 Red 4BX, conc	lb.	1.43	—
518 Diamine sky blue FF, extra, conc	lb.	1.65	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd., No

593 Green BY, conc	lb.	.87	—
596 Yellow brown K, extra	lb.	1.07	—
620 Yellow 2G	lb.	1.11	—
639 Fast Yellow GG	lb.	1.97	—
640 Yellow XX	lb.	1.95	—
655 Yellow OX	lb.	2.24	—
657 Green V	lb.	2.31	—
662 Brilliant green G	lb.	3.07	—
667 Milling green 6B, conc	lb.	4.05	—
671 Blue EG	lb.	1.68	—
681 Crystal violet powder	lb	2.15	—
698 Violet 6BN powder	lb.	1.91	—
720 Brilliant blue BBG	lb	2.07	—
729 Blue B, conc	lb	3.06	—
749 Red BX	lb.	4.76	—
800 Chinoline yellow ZSS	lb	2.67	—
860 Induline base ZM	lb	1.07	—
860 Induline base Z2R	lb.	1.07	—
814 Yellow NN, conc	lb.	3.11	—
841 Safranine GF, extra, conc	lb.	3.48	—
865 Nigrosine J	lb.	4.76	—
922 Blue GXX	lb.	1.38	—
978 Black GXCF, conc	lb	.32	—
1034 Alizarine red SC	lb.	2.85	—
1054 Alizarine blue SAPX	lb.	3.20	—
1078 Alizarine green CG, extra	lb.	2.59	—
1085 Alizarine blue black B	lb	2.56	—
1096 Golden orange GFD, single paste	lb	2.19	—
1099 Dark blue BO, single paste	lb	1.93	—
1101 Jade green N supra double paste	lb	1.10	—
1106 Blue RS, double paste	lb	3.26	—
1113 Blue BLED double paste	lb	2.48	—
1150 Olive R, single paste	lb.	1.21	—
1151 Brown R single paste	lb.	1.94	—
1171 Indigo synthetic, 20% paste	lb.	.31	—
1217 Orange RD, double powder	lb	3.94	—
p-4 Brown PG	lb	2.54	—
p-14 Brown EB	lb.	1.83	—
p-24 Gray L	lb	1.76	—
p-80 Diazo brilliant scarlet ROAD	lb	3.07	—
p-202 Diazo black VJ, conc	lb	2.10	—
p-244 Brilliant scarlet BN	lb.	1.44	—
p-313 Naphthol SWF	lb	2.24	—

Dyes, coaltar oil soluble, 100 lb dms., dlvd

24 Oil orange Z-7078	lb	1.06	—
73 Oil scarlet BL	lb.	1.44	—
1073 Oil violet ZIRS	lb	6.81	—
1078 Alizarine cyanine green base Z	lb	6.13	—
1080 Oil violet special Z	lb	6.81	—
Oil black ZBC	lb	4.46	—
Oil black ZBD	lb.	3.03	—
Oil black ZHH	lb	4.61	—
Oil black ZMM	lb	6.52	—
Oil blue ZN	lb	8.02	—
Oil blue ZV	lb	4.95	—
Oil orange ZMG	lb	1.32	—
Oil red Z-1700	lb	1.49	—
Oil yellow ZG, conc	lb	6.33	—

Dyes, coaltar, spirit soluble, 100 lb dms., dlvd

p-517 Spirit yellow ZR	lb	4.62	—
p-520 Spirit orange ZR, conc	lb	5.87	—
Spirit black ZRB	lb	2.95	—
Spirit brown ZG	lb	5.30	—
Spirit red ZB, conc	lb	6.41	—

E

Echinacea root, bls	lb	1.10	—
Egg albumin (see Albumin).			
Yolk, dried, dom., bbls	lb.	1.03	- 1.05
tanners, bbls	lb.	.06	- .06½
Elm bark, grinding, bls	lb.	.30	- .32
powd., bbls., bxs	lb.	.45	- —
select, bundles	lb.	.75	- —
Emetine hydrochloride, USP bots	oz.	48.25	-49.00
Endrin, tech., dms. dlvd., 100% basis	lb.	3.75	- —
Ephedrine, syn., USP, anhyd., bo-s, 100 oz lots	oz.	.98	- 1.00
hydrous bots, 100 oz lots	oz.	.92	- —
Hydrochloride, tins, 100-oz. lots,	oz.	.75	- —
Sulfate, cryst., tins, 100-oz. lots	oz.	.72	- —
	oz. lots	oz.	.72 - —
powd. tins, 100-oz lots	oz.	.73	- —
Epichlorohydrin, dms., c.l., dlvd	lb.	.35	- —
l.c.l., dlvd	lb.	.36	- —
tanks, dlvd	lb.	.33	- —
Epinephrine syn. USP bots, 100-gram lots	gram	.60	- —
Epsom salt (see Magnesium sulfate)			
Ergot, NF dms., tin-lined	lb	2.00	- —
Eserine salicylate, bots	oz.	72.50	-84.00
Sulfate, bots	oz.	87.75	- —
Ether (see specific product)			
Ethyl acetate, nat., ferment 85-88%, dms., c.l., frt. alld	lb.	.14½	- —
l.c.l., frt. alld	lb.	.15½	- —
tanks, frt. alld	lb.	.12	- —
95-98%, dms., c.l., frt. alld.	lb.	.14¾	- —
l.c.l., frt. alld	lb.	.15¾	- —
tanks, frt. alld	lb.	.12¼	- —
99%, dms., c.l., frt. alld	lb.	.15	- —
l.c.l., frt. alld	lb.	.16	- —
tanks, frt. alld	lb.	.12½	- —
syn., 85-88%, dms., c.l., dlvd.	lb.	.14½	- —
l.c.l., dlvd	lb.	.15½	- —
tanks, dlvd	lb.	.12	- —
95-98%, dms., c.l., dlvd	lb.	.14¾	- —
l.c.l. dlvd	lb.	.15¾	- —
tanks, dlvd	lb.	.12¼	- —
99%, dms., c.l., dlvd	lb.	.15	- —
l.c.l., dlvd	lb.	.16	- —
tanks, dlvd	lb.	.12½	- —
Acetoacetate, dms., c.l., dlvd	lb.	.58½	- —
	lb.	.58½	- —
l.c.l., dlvd	lb.	.59½	- —
tanks, dlvd	lb.	.56	- —
Acrylate, dms., c.l., t.l., dlvd.	lb.	.36	- —
t.l., dlvd	lb.	.37	- —
tanks, dlvd	lb.	.34	- —
Aminobenzoate, USP (see Benzocaine).			
Amyl keytone, dms., c.l., dlvd	lb.	.20	- —
Amyl ketone, dms. c.l., dlvd	lb.	.20	- —
l.c.l., same basis	lb.	.21	- —
tanks, same basis	lb.	.17½	- —
Benzoate, bots	lb.	.74	- .90
Bromide, tech., 98%, dms., c.l., frt. alld. E	lb.	.42	- .44
l.c.l., frt. alld. E	lb.	.44	- .46
Butyl ketone, dms., c.l., works.	lb.	.36	- —
l.c.l., works	lb.	.36¾	- —
tanks, works	lb.	.34	- —
Butyrate, works	lb.	.85	- .90
Carbamate (see Urethane).			
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works	lb.	.70	- —
smaller lots, works	lb.	.72	- .80
vis. 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works	lb.	.65	- .70
smaller lots, works	lb.	.67	- .81
Chloride, tech., cyl., works		.20	- .22
dms., works	lb.	.18	- .20
tanks, works	lb.	.10	- —
Cinnamate, cns	lb	3.35	- 3.45

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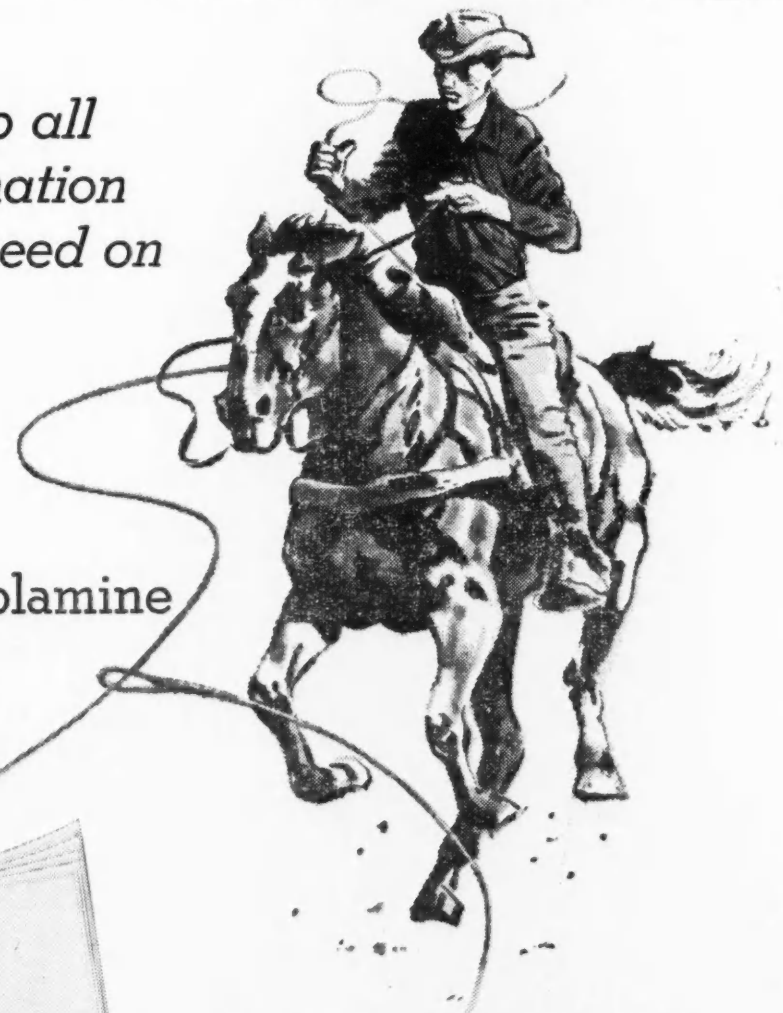

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½-lb cns lb. 1.11 - —
¼-lb cns lb. 1.21 - —
indust., dms., c.l., dlvd lb. .12½- —
l.c.l., dlvd E lb. .13½- —
tanks dlvd E lb. .10 —
Gallate, dms., 100 to 2,000-lb. lots lb. 3.90 - 4.40
Iodide, cbys., works lb. 3.30 - —
Methacrylate, dms., c.l., and less than truckload, works, frt. equald lb .51½ .52
Morphine hydrochloride, USP, bots oz. 11.85 - —
Nitrite (see Nitrous ether).
Oenanthate dms lb 1.00 1.50
Oleate, dms. l.c.l., works lb No prices
Oxalate (see Diethyl oxalate)
Silicate dist (see Tetraethyl orthosilicate).
40% available SiO_2, dms., c.l., dlvd lb. .49½- —
l.c.l., dlvd lb. .50½- —
tanks dlvd lb. .47 —
Ethylethanolamines mixed, dms., c.l., dlvd E lb. 43½- —
l.c.l. dlvd E lb. 44½- —
tanks, dlvd E lb. 41½- —
N-Ethyl-a-naphthylamine dms. works, lb 1.02 - —
N-Ethyl-o-toluidide bbls lb .88 - —
Ethylamine (see Mono, Di- or Tri-)
N-Ethylaniline dms. c.l. frt. alld. lb. .57 - —
l.c.l., frt. alld lb. .58 - —
tanks, frt. alld lb. .55 - —
Ethylbenzene 99% dms., c.l., or t.l., frt equald lb. .17 - —
l.t.l. same basis lb. .18 - —
tanks, same basis lb. .15 - —
Ethylene dichloride dms. c.l. dlvd. lb. .11½- —
l.c.l. same basis lb. .12½- —
tanks, same basis lb. .09 - —
Ethylene dichloride prices W. of Rockies 1c. per lb. higher.
Glycol, indust., dms., c.l., dlvd, E lb. .16 - —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .13½- —
Monobutyl ether, dms., c.l., dlvd. E lb. .22 - —
l.c.l., dlvd E lb. .23 - —
tanks, dlvd E lb. .19½- —
Monoethyl ether, dms., c.l., dlvd. E lb. .21 - —
l.c.l., dlvd. E lb. .22 - —
tanks, dlvd E lb. .18½- —
Acetate, dms., l.c., dlvd., E lb. .19½- —
l.c.l., dlvd E lb. .20½- —
tanks, dlvd E lb. .17 - —
Monomethyl ether, dms., c.l., dlvd. E lb. .21 - —
l.c.l., dlvd. E lb. .22 - —
tanks, dlvd E lb. .18½- —
Acetate, dms., l.c., dlvd., E lb. .29 - —
l.c.l., dlvd. E lb. .29¾- —
tanks, dlvd E lb .27 —
Monostearate triple pressed, dms lb. .33 - .35
Oxide, dms., c.l., dlvd. E lb. .21½- —
l.c.l. dlvd. E lb. .24½- —
tanks, dlvd E lb. .15½- —
Trichloride (see Trichloroethane).
Ethylenediamine, 85-88%, dms., c.l., dlvd E, 100% basis lb. .46 - —
l.c.l. dlvd E., 100% basis lb. .47 - —
tanks, dlvd E., 100% basis lb. .44 - —
Ethylvanillin, cns., 25-lb. lots lb. 6.20 - 6.25
Eucalyptol, USP, cns., dms lb 1.25 1.50
Eugenol, USP, bots lb. 2.25 2.60
Euphorbia herb, bls lb .15 - .17

F

Feldspar, 140-200 mesh bulk, c.l., works ton 18.50 —
Feldspar in bags $3 per ton higher
Fennel seed, Argentine, bgs lb. .13½- —
Czech, medium, bgs lb. .09 - —
Indian, light, bgs lb. .15½- —
Roumanian, bgs lb. .09 - —
Fenugreek seed, Indian, bgs lb. .08½- .09
Moroccan, bgs lb. .08½- .09
Ferric acetate liquor, 28°, bbls., c.l., works lb. .09 —
l.c.l., works lb. .09¾- —
soln., USP IX, cbys lb. .16 - —
djns. lb. 17 —
Cacaodylate NF, bots lb. 13.00 - 14.00
Chloride, anhyd., tech., dms., c.l., works 100 lbs. 7.00 - —
l.c.l., works 100 lbs 7.85 - —
indust., cryst., bbls., c.l., works 100 lbs 5.25 - 6.75
l.c.l., works 100 lbs. 5.75 - 7.25
42° Be. photo grade, cbys., c.l., works 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt. equald, 100% basis, 100 lbs. 3.50 - —
USP cryst dms, works lb .07½- .09
Citrate, gran., dms lb. .86 - —
Hypophosphite, NF dms lb. 3.45 —
Naphthenate, liq., 6% Fe, dms., frt. alld lb. .25¾- —
Oxalate gran. dms lb. .85 - .87
Oxides (see oxides under Black, Brown, Red, and Yellow.)
Phosphate, NF, soluble, gran., pearls cs lb. .64 - .65
Pyrophosphate, NF VII, soluble, powd., gran., pearls, dms., 10,000 lb. lots lb. .40½- —
Resinate, 6¾% Fe, dms., frt. alld. lb. .29½- —
Stearate, dms. c.l., frt. alld lb. .37 - —
l.c.l., frt. alld lb. .38 - .43
Sulfate, partially hydrated, bgs., c.l., works ton 31.75 -33.75
l.c.l. works ton 34.75 -40.75
lb. .37 - —
Ferric-ammonium, citrate, brown, pearls, NF, gran., dms lb. .65 - .68
green, pearls, USP XII, gran., dms lb. .66 - .69
Oxalate, fine gran., dms lb. .25½- .28½
Ferric-potassium oxalate, fine gran., dms lb. .30½- .33½
Ferric-sodium oxalate, fine gran., dms lb. .25½- .28½
Ferrous gluconate, NF, dms lb. .94 - —
Sulfate, gran., bgs., c.l., works ton 34.50 - —
l.c.l., dlvd. Metropolitan area 100 lbs 3.35 - 4.25
bbls., c.l., works ton 40.00 - —
bulk, c.l., works ton 27.00 - —
USP cryst., bbls., dms lb .09½- .10
Fir balsam, Canada, cns gal. 32.00 - —
Oregon, bbls gal. 4.50 - —
Fishliver oil (see Oil fishliver).
Fishmeal, dom., menhaden, 60% protein grd., bgs., Chesapeake Bay area ton. 140.00 - —
scrap, same basis ton. 136.00 - —
Fleaseed (see Psyllium seed)
Formaldehyde, USP, 37% (inhibited), methanol, Zone 1, dms., c.l., dlvd lb. .07 - —
l.c.l., works lb. .0745- .075
tanks, dlvd lb. .042 - —
Zone 2, 12-15% methanol, dms, c.l., dlvd lb. .0735- —
tanks, dlvd lb. .045 - —
Formaldehyde, methanol-free (uninhibited), Zone 1, tanks, dlvd lb. .0395- —
Zone 2, tanks, dlvd lb .042 —
Fringetree bark, bls lb 80 .61
Fullers earth bgs., c.l. Ill. mines, ton. 19.00 - —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines ton. 17.50 - —
calcined, bgs, c.l., same basis ton 20.00 -21.75
oil-bleaching grade, 100-mesh, bgs., c.l., same basis ton 16.30 -17.00
200-mesh bgs, c.l., same basis ton. 17.50 -18.00
spent bgs, c.l. shipt point ton 4.50 5.00
Furfural dms, c.l., works lb .13 —
l.c.l. works lb .14 - —
tanks, dlvd E lb .12 - —
dlvd W lb .13 - —
Fusel oil, refd., dms., c.l. dlvd lb .18 - —
l.c.l. dlvd lb .19 - —
tanks, dlvd lb .15½- —
Fustic extract cryst. No 1, bbls., l.c.l lb. .47½- —
No 2 bbls l.c.l lb 45½- —
No 3, bbls, l.c.l lb 43½- —
liq., No 1, bbls., l.c.l lb .22½- —
No 2 bbls l.c.l lb 21½- —
No 3, bbls l.c.l lb 19 —
solid No 1, bxs., l.c.l lb .45 - —

G

G salt bbls, frt alld 100% basis lb 73 - —
Gammapicoline (see g-Picoline)
Gelatin, edible pure (pork skin), 75 Bloom test, bbls., c.l lb. .53 - —
150 Bloom test, bbl., c.l lb. .64 - —
200 Bloom test, bbls, c.l lb 70 - —
225 Bloom test, bbls, c.l lb 73 - —
275 Bloom test, bbl., c.l lb 81 - —
Gelsemium root, bls lb. .26 - —
Gentian root, bls lb. .23 - —
grd., bbls., bxs lb. .27 - —
powd., bbls., bxs lb. .27 - —
Geraniol, extra, cns., dms. lb. 3.95 - —
standard, cns., dms. lb. 3.75 - —
Geranyl acetate, cns. lb. 3.95 - —
Ginger oleoresin NF from African root bots lb 4.00 - 7.75
from Jamaican root bots lb 6.00 -10.25
Root, African, bls. lb. .33 - —
Cochin, bgs lb. .26½- —
Jamaican, No. 2, bgs lb. .76 - —
No. 3 bgs. lb. .75 - —
Nigerian, split, bgs. lb. .28 - —
Glauber's salt anhyd (see Sodium sulfate)
Glue, bone, extracted, dry bone, 86 jellygrams bgs., c.l., dlvd lb. .15 - —
104 jellygrams, same basis lb. .17 - —
131 jellygrams, same basis lb. .18 - —
164 jellygrams, same basis lb. .20½- —
191 jellygrams, same basis lb. .21 - —
222 jellygrams, same basis lb. .22 - —
12 green 40 jellygrams, bgs., c.l. dlvd lb. .13½- —
65 jellygrams, same basis lb. .13¾- —
86 jellygrams, same basis lb. .14 - —
115 jellygrams, same basis lb. .14½- —
135 jellygrams, same basis lb. .15 - —
164 jellygrams, same basis lb. .16 - —
180 jellygrams, same basis lb. .17 - —
200 jellygrams, same basis lb. .18½- —
Bone glue l.c.l. prices 1c higher
Glue, hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .15 - —
95-121 bgs. c.l. dlvd lb 16 —
122-149, bgs., c.l., dlvd lb. .18½- —
150-177, bgs., c.l., dlvd lb. .21 - —
178-206, bgs., c.l., dlvd lb. .23½- —
207-236, bgs., c.l., dlvd lb. .26 - —
237-266, bgs., c.l., dlvd lb. .28 - —
267-298, bgs., c.l., dlvd lb. .30 - —
299-330, bgs., c.l., dlvd lb. .32 - —
331-362 bgs, c.l., dlvd lb. .34 - —
363-394, bgs., c.l., dlvd lb. .36 - —
395-427, bgs., c.l., dlvd lb. .38 - —
428-460, bgs., c.l., dlvd lb. .40 - —
461-494, bgs., c.l., dlvd lb. .42 - —
495-529, bgs., c.l., dlvd lb. .43 - —
Hide glue l.c.l. prices 1c higher
l-Glutamine, bots gram .65 - —
Glycerine, nat. crude, saponification, 88%, to refineries, tanks lb. 16½- —
soaplye, 80%, tanks lb. .15 - —
refd., CP USP 99% dms., c.l., dlvd lb. 29¾- —
l.c.l., dlvd lb. 29¾- —
tanks, dlvd lb. 27¾- —
96%, dms., c.l., dlvd lb. 28½ —
l.c.l., dlvd lb. .29 - —
tanks, dlvd lb. .27 —
high gravity dms. c.l., dlvd. lb. 29¼- —
l.c.l., dlvd lb. 29¾- —
tanks, dlvd lb. 27¼- —
nat., refd., high gravity lb. 28½- —
l.c.l., dlvd. lb. .29 - —
syn., dms., c.l., dlvd lb. 29½ —
l.c.l., dlvd. lb. .30 —
tanks, dlvd lb. .28 - —

announcing . . .

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Glycine (see Acid aminoacetic).
Glycerol (see Glycerine).
Glyoxal, 30% dms. c.l., works lb. .18½ - —
l.c.l., works lb. .19¼ - —
Golden seal root, NF, tested, bls. lb. 3.50 - —
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09½
crystalline 88-90% powd., bgs., fib dms., ex whse lb. .19 - .21½
90-92% powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97% powd., bgs., fib. dms., ex whse lb. .29 - .31½
Flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, white, choice, all hog tanks, dlvd lb. .08¾ - .09
yellow, tanks, dlvd lb. .07¾ - —
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb. 5.10 - —
tungstated, PTMA, kgs., works lb. 6.40 - —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .40 - .42
16-30%, bbls., same basis lb. .40 - .42
31-45%, bbls., same basis lb. .41 - .43
45-49%, bbls., same basis lb. .44 - .46
Green, chrome, reduced color, 25%, bbls., same basis lb. .19 - .20
Chrome green prices are ½c. higher, dlvd. at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss. N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Chromium oxide, hydrated, bbls., fib. dms., c.l., frt. alld. lb. 1.00 - 1.20
pure, bgs., c.l., frt. alld. lb. .44¾ - —
l.c.l., same basis lb. .45½ - —
Dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works lb. 4.60 - —
Paris (see Paris green).
Phthalocyanine toner, bbls., works. lb. 3.95 - —
resinated, bbls lb. 3.50 - —
water dispersable, bbls. lb. 1.71 - —
Pigment B, kegs lb. 1.35 - —
paste, kegs lb. .38 - —
Grindelia robusta herb, bls lb. .39 - .40
Guaiacol, NF, cryst., dms., tins lb. 2.10 - 2.15
liq., cbys., dms lb. 2.30 - 2.40
Carbonate, NF VII, dms lb. 3.40 - 3.45
Gum, aloe (see Aloe).
Arabic, amber sorts, bgs. lb. .19 - .21
powd., USP, bbls. lb. .25 - .27
Asafetida (see A).
Asphaltum (see A).
Gum, benzoin, Sumatra, cs. lb. .33 - —
Camphor (see C).
Cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld. lb. .53 - —
smaller lots, same basis lb. .57 - —
Copal, Congo, No. 1, bgs. lb. .22½ - .25
No. 2, bgs. lb. .18½ - .20
No. 3, bgs. lb. .15¾ - .17
Manila, C, bgs. lb. .36½ - .40
CBB, bgs. lb. No stocks.
DBB, bgs lb. .26¾ - .29
DK, bgs lb. No stocks.
dust, bgs lb. .14 Nom.
MA, soft, bgs lb. .18½ - .21
WS, bgs. lb. No stocks.
Philippine, pale, chips, bgs. lb. .21½ - .24
nubs, bgs lb. .31¾ - .34
seeds, bgs. lb. .20 - .22
sorts, bgs lb. .19¾ - .22
Pontianak, chips, bgs. lb. .26 - —
nubs, bgs lb. .37¾ - .40
Dammar, Batavia, A E, cs lb. No stocks.
dust, bgs. lb. .16 - .18
E, bgs lb. .20 - .22
East India, batu, bold, bgs. lb. .13½ - .15
nubs and chips, bgs lb. .08 - .09
black, bold, bgs lb. .14 - .16
unscraped, bgs. lb. .11¾ - .13
nubs and chips, bgs. lb. .11 - .13
pale, chips, bgs. lb. .12¾ - .14
nubs, bgs lb. .17 - .19
Siam, cs. lb. .36½ - .39
Singapore, No. 1, bgs lb. .44¼ - .46
No. 2, bgs. lb. .31¾ - .33
No. 3, bgs lb. No stocks.
dust, bgs. lb. .16¾ - .18
seeds, bgs lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd., Ill., Md., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va. lb. .14½ - .16
Gum, ester, wood-rosin type, dms., c.l., same basis lb. .15 - .16
Guar, food grade, bgs. lb. .50 - —
tech. grade, bgs. lb. .40 - —
Karaya, No 1, NF, powd., bbls. lb. .45 - —
No. 2, powd., bbls. lb. .34 - .37
No. 3, powd., bbls. lb. .31 - .34
Locust bean, powd., bgs. lb. .48 - .50
Myrrh, cs. lb. .55 - —
Opium (see Opium).
Olibanum siftings, cs. lb. .20 Nom.
tears, cs. lb. .22 .30
Rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs. lb. 4.50 - 4.70
No. 2, cs. lb. 3.50 - 3.75
No. 3, cs. lb. 3.25 - 3.40
powd., USP, bbls. lb. 1.25 - 1.38
Gypsum, plaster of paris, 100-lb. paper, bgs., trucks, dlvd. id Y C ton 20.30 - —
Terra alba, dom., paper bgs., same basis ton 20.00 - —
works, N. Y. C. ton 17.00 - —
imp., English, 100-lb. paper bgs., ex dock, N. Y. C ton 55.00 - —
ex warehouse ton 60.00 - 62.00

H

Hawthorn berries, bgs. lb. 21 - —
Heliotropin, 100-lb. lots, dms. lb. 3.00 - 3.25
Hellebore root, dom., green bls lb. 70 - 75
Helonias root, bls lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l lb. .47 - —
No. 2, bbls., l.c.l lb. .43 - —
No. 3, bbls., l.c.l lb. .41 - —
No. 4, bbls., l.c.l lb. .39 - —
No. 5, bbls., l.c.l lb. .37 - —
paste, No. 1, bbls., l.c.l lb. .29½ - —
Henbane leaves, bls lb. .35 - .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾ - —
Borger, Tex gal. 14¾ - —
Hesperidin, purif., 25 lb. lots, f.o.b., works lb 8.95 - —
Methylchalcone, bots., 50-lb. lots, works lb 22.50 - —
5-lb. lots, works lb 23.00 - —
1-lb. lots, works lb 23.50 - —
Hexachlorophene, dms lb 1.98 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or N Y C lb. .222 - —
1,000-19,999-lb. lots, same basis lb. .232 - —
smaller lots, same basis lb. .242 - —
fib dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots same basis lb. .242 - —
USP, dms., 500-lb. lots or more, smaller lots, same basis lb. .41½ - —
Hexane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .15½ - —
Borger, Tex gal. .15½ - —
1-Hexanol, dms., c.l., works lb. .35 - —
l.c.l., works lb. .35¾ - —
tanks, works lb .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.00 - 7.50
Salicylate, dms lb 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .17 - —
l.c.l., dlvd lb. .18 - —
tanks, dlvd lb. .14½ - —
α-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb 14.00 - —
smaller lots, dlvd lb 44.50 - —
Homatropine hydrobromide, USP, bots oz. 5.50 - —
Methylbromide, USP, bots oz. 3.90 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton 6.25 - —
Horehound herb, bls lb. 16 - 19
Hydrastine, bots oz. 28.75 - 29.50
Hydrochloride, NF, bots oz. 28.75 - 29.50
Hydrastis (see Goldenseal).
Hydrazine free base, ret. dms., works lb. No stocks.
Hydrate, 85%, ret. dms., works lb. 1.35 - 1.55
100%, ret. dms., works lb. 1.60 - 1.90
Hydrocortisone acetate, bulk, bots., up to 500 gms gm. 4.75 - —
Alcohol, bulk, bots., up to 500 gms gm. 4.75 - —
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 - —
l.c.l., works lb. .55 - .60
Fluoride anhyd., cyls., dlvd. E lb. .30½ - .32½
dlvd W lb. .39 - —
tanks, works lb. .21 - —
Peroxide, USP, bbls., dlvd lb. .03¾ - .05
35%, dms., c.l., dlvd lb. .202 - —
l.c.l., dlvd lb. .211 - —
tanks, dlvd lb. .1800 - —
Hydroquinone, photo grade, bbls., dms. lb. 1.03 - 1.06
tech., dms., c.l., dlvd lb. .82½ - —
l.c.l., dlvd lb. .84½ - —
Hydroxycitronellal, cns lb. 6.00 - 7.45
Hyoscine salts (see Scopolamine)
Hydrobromide, bots oz. 6.00 - 7.00
Sulfate, bots oz. 6.75 - 7.25
Hypernic extract, cryst., No. 2, bbls., l.c.l lb. .52 - —
liq., No. 1, bbls., l.c.l lb. .35 - —
No. 2, bbls., l.c.l lb. .27 - —

I

Ichthammol, NF, jars lb. .75 - 2.57
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indole, CP, bots lb 16.50 - 21.00
Inositol, bots., dlvd lb 5.00 - —
dms., dlvd lb 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.10 - —
resub., USP, dms., jars lb. 2.30 - 2.32
Iodochlorohydroxyquinolin, USP, dms lb. 5.90 - —
Iodoform, NF, dms., kgs lb. 4.90 - 5.00
a-Ionone, cns lb 5.25 - 5.40
b-Ionone, cns lb 5.40 - 5.70
Ipecac root, bgs., whole lb. 7.50 - —
powd., bbls., bxs lb. 7.85 - —
Irish moss, bleached, prime, bls lb .28 - .34
Iron compounds (see Ferric or Ferrous). Oxides (see under Black, Brown, Red, and Yellow).
Isobornyl cinnamate, cns lb 1.25 - 1.70
Isobornyl acetate, cns lb. .46 - .70
Formate, dms lb .80 - —
Propionate, dms lb 1.15 - 1.45
Isobutyl acetate, perfume grade, cns lb .75 - 1.00
solvent grade, dms., c.l., dlvd E of Rockies lb. .14¾ - —
l.c.l., same basis lb. .15¾ - —
tanks, same basis lb. .12¼ - —

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Less toxicity and no odor

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*T.M.

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20 North Wacker Drive, Chicago 6, Illinois — 714 West Olympic Blvd., Los Angeles 15, Calif.
EUROPEAN OFFICE
36, Avenue William-Favre, Geneva, Switzerland

Isobutyraldehyde, CP, dms., c.l., dlvd lb. .27½ - —
l.c.l., dlvd lb. .28½ - —
tech., dms., c.l., dlvd lb. .21½ - —
l.c.l., dlvd lb. .22½ - —
tanks dlvd lb. .19½ - —
Isoeugenol, cns lb. 3.60 4.40
Isoniazid, powd., bulk, 25-kilo lots or more kilo. 23.00 -25.50
smaller lots kilo. 24.00 -26.00
Isopentane, coml, grade, tanks, f.o.b Tex, refy gal. .15½ - —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works lb. .24½ - —
l.c.l., works lb. .25¼ - —
tanks, works lb. .22½ - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate dms., c.l., dlvd lb. .13½ - —
l.c.l., same basis lb. .14½ - —
tanks, same basis lb. .11 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether dms., c.l., dlvd lb. .07 - —
l.c.l. dlvd lb. .08 - —
tanks, dlvd lb. 05 - —
Isopropyl-N-(3-chlorophenyl) carbamate, (CIPC), 70% in xylol, dms., c.l., t.l. works lb. 70 - —
l.c.l., works lb. 714 - .814
Isopropylamine (see Mono, Di, or Tri-).
Isopropyl-N-phenyl carbamate, 450-lb fib dms, c.l., t.l., works, lb. 75 —
t.c.l. works lb. .80 .90
Isoquinoline dms., works lb .65 1.25

J

Jalap root, NF, bls lb. NP - —
powd., bbls., bxs lb. NP - —
Juniper berries, bgs lb 18 .20
Tar NF dms lb 42 .60

K

Kaolin (see also Clay China).
NF, powd. fib dms lb. .10 - .12
colloidal fib. dms lb. .15½ - .17½
Kola nuts bgs lb .15 - —

L

Lactose, edible fib dms., 30,000-lb. lots, works lb. .15 - .15¼
2,000-lb lots, works lb. .15¾ - .16½
200-1,800-lb. lots, works lb. .16¾ - .17
Edible lactose in bgs. ½-1c. lower
Fermentation grade, bgs., c.l., works lb. .08½ - —
USP fib dms., 30,000-lb. lots, works lb. .21½ - —
2,000-lb lots, works lb. .22¼ - —
200-1,800-lb. lots, works lb. .22¾ - —
USP lactose in bgs 1c lower.
Lanolin, cosmetic, dms., works lb. .27 - .29
USP, anhyd., dms., works lb. .25 - .27
hydrous, dms., works lb. .24 - .26
Lard, cash, dms., Chicago lb. .14¼ - —
Larkspur seed, bgs lb. .25 - —
n-Lauryl methacrylate, dms., c.l. or t.l. works lb. 65½ - —
Lavender flowers, medium, bls lb. .75 - .80
ord., bls lb. .25 - .40
select bls lb. .90 - —
Lead acetate, white, cryst., bbls lb. .23½ - —
gran., bbls lb. .24½ - —
powd bbls lb. .24½ - —
NF, cryst., gran, powd lb. .34½ - —
Arsenate, acid, powder, dealers, 3-lb bgs or larger, c.l., frt alld on 96 lbs. or more lb. .27½ - —
t.c.l., frt alld lb. .28½ - —
1-lb bgs., c.l lb. .41½ - —
l.c.l lb. 42½ - —
Blue, basic sulfate, bbls., c.l., shipt point, frt alld lb. .17¼ - —
l.c.l., same basis lb. .18¼ - —
Carbonate (see Lead, white, basic carbonate).
Chloride, dms lb. .45 - —
Iodide, NF V jars lb. 3.82 - —
Linoleate fused, 26%% Pb, dms. lb. .33 - —
Metal pigs prime, N. Y lb. .16 - —
St Louis lb. .1580 —
Metallic paste, dms., 20,000-40,000-lb. lots, works lb. .33¾ - —
10,000-20,000-lb lots, same basis lb. .34¾ - —
200-2,000-lb. lots, same basis, lb. .35¾ - —
Prices ex whse. Jersey City, N J., 4½c per lb higher
Monosilicate, bgs., c.l., works, frt equald lb. .20 - —
t.c.l. same basis lb. .2075 - —
Naphthenate, liq., 16% Pb., dms., dlvd lb. .17 - —
24% Pb. dms., dlvd lb. .21 —
solid, 37% Pb., dms., dlvd lb. .27½ - —
Nitrate, bbls lb. .23¾ - —
Orthosilicate-silica gel, 50-60% PbO dms., works lb. .29¾ - .34¼
Peroxide, tech., powd., bbls lb. .38¾ - .40¼
Phthalate, dibasic, dms., works lb. .41 - —
Red 95% Pb_3O_4, or less, bbls., c.l., works, frt. alld lb. .19 - —
l.c.l., same basis lb. .20 - —
97% Pb_3O_4, bbls., c.l., same basis. lb. .192 - —
l.c.l., same basis lb. .202 - —
98% Pb_3O_4, bbls., c.l., same basis. lb. .1935 - —
l.c.l., same basis lb. .2035 - —
Resinate, precip., 23% Pb, dms., dlvd lb. .32½ - —
Salicylate normal, dms., works, lb. .46 - —
Silicate (see Lead, white, basic, silicate).
Sulfate (see Lead, blue, basic sulfate, Lead white, basic sulfate).
Tallate, liq., 16% Pb, dms lb. .15 - —
24% Pb., dms lb. .18½ - —
solid, 30% lb. .23½ - —
White, basic carbonate, bgs., c.l., shipt point, frt. alld lb. .19 - —
l.c.l., same basis lb. .20 - —
silicate, bgs., c.l., shipt. point, frt. alld lb. .17¼ - —
t.c.l., same basis lb. .18¼ - —
sulfate, bgs., c.l., shipt. point, frt. alld lb. .17¼ - —
t.c.l., same basis lb. .18¼ - —
Lecithin, edible, tech., bleached, non-ret, dms., c.l., works lb. .14 - .15
l.c.l., same basis lb. .16 - .17
unbleached, non-ret. dms., c.l., same basis lb. .13 - .14
l.c.l., same basis lb. .15 - .16
Lemon bioflavonoid complex, 25-lb. lots, works lb 9.00 —
dl-Leucine, dms., works lb 12.25 -15.00
Licorice root, whole, bbls lb. .10 - .12
gran., bbls lb. .15 - .17
powd., bbls lb. .12 - .15
Lignosulfonate, 70% tannin, bgs., c.l., works lb. .06½ - —
l.c.l., works lb. .06¾ - —
Lime, chemical (quicklime), bulk, c.l., metropolitan N. Y. destination, freight equalized with nearest producing point ton. 20.46 - —
Hydrated, bulk, c.l., same basis. ton. 21.96 - —
Spray, bgs., c.l., same basis ton. 25.96 - —
Lime salts (see Calcium)
Lime-ammonium nitrogen 20.5% N (see Ammonium nitrate with dolomite)
Limestone grd., bgs works ton 3.50 4.00
Linalool, ex bois de rose oil, dms. lb. 3.65 4.80
ex lignaloe wood oil, dms lb 5.30 7.10
Linalyl acetate ex bois de rose, 90-92%, dms lb. 3.30 5.10
96-98%, dms lb. 4.05 6.75
ex petitgrain, bots lb. 4.80 5.90
Lindane, 25% formulation, dealers, dms., frt. alld lb. 1.58 - 1.66
99% tech. formulators, dms., frt alld lb 2.65 3.25
Linden flowers with leaves, bls lb. .25 - —
without leaves, bls lb. .30 - —
Linseed meal, expeller 32-34% bulk, Midwest, mills ton. 62.50 - —
extracted 36% bulk same basis ton. 53.00 -53.50
Litharge, coml., powd. bbls., c.l., works, frt. equald lb. .18 - —
l.c.l., same basis lb. .19 —
Lithium benzoate, dms lb. 1.65 1.67
Bromide, NF, dms, works, frt. equald lb. 2.45 - —
Lithium, carbonate, NF, dms., c.l., t.l., dlvd lb. 1.29½ - —
ton lots to t.l. dlvd lb 1.30 —
tech., dms., c.l., t.l., dlvd., frt. alld. works lb. .82 - —
t.c.l., same basis lb 85 1.11½
Chloride, CP, anhyd., ton lots lb. 1.23½ - —
tech., anhyd., dms., c.l., t.l., dlvd. or works frt. alld. lb 1.00 1.05
t.c.l. same basis lb 1.05 1.05½
Citrate, NF, dms lb 1.60 1.64
Fluoride, bbls., 10,000-lb. lots, dlvd lb 2.17½ —
ton lots, dlvd lb 2.18½ —
less ton lots dlvd lb 2.23½ —
Hydride powd., dms., 500-lots, works lb 10.50 -12.50
Hydroxide, monohydrate, dms., c.l. t.l. dlvd or works, frt. alld lb .80 80½
t.c.l. same basis lb 81 81½
Manganite, dms., works lb .95 1.15
Nitrate tech. dms. 100-lb lots lb 1.25 —
Salicylate, dms. lb 1.60 1.70
Silicate, dms., works lb. 1.10 1.30
Stearate dms., c.l works lb 47½ —
ton lots works lb 48½ —
less ton lots works lb 53½ —
Sulfate dms., 100-lb lots lb. 1.15 —
Titanate dms works lb 1.25 1.35
Lithopone ord., bgs. c.l., dlvd E. lb .08 —
l.c.l., dlvd E lb .08¼ —
Lobelia herb bls lb 1.50 —
Lobeline sulfate bots. works oz. 37.50 -39.00
Logwood extract cryst. No 1, bbls., l.c.l lb 41 —
No 2, bbls., c.l. lb 39 —
liq., No 1 bbls., l.c.l lb 20 —
No 2, bbls l.c.l lb 19 —
No 3, bbls l.c.l lb 18½ —
solid No 1 boxes c.l. lb 35 —
Lycopodium cs lb 1.20 2.00
dl-Lysine monohydrochloride lb. 12.00 - —
l-Lysine, fib, dms lb. 12.00 -13.00

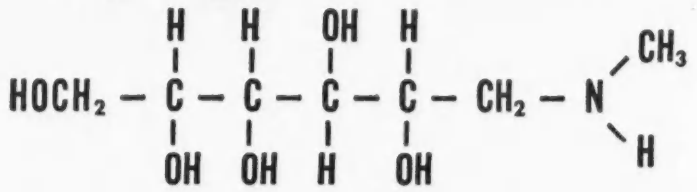
M

Mace, Siauw, siftings, bls lb. 3.25 - —
West Indian No 1 bls shipment lb. 3.25 - —
Magnesia calcined tech bgs, ctns., works lb .25¼ 28
syn. rubber grade, light, bgs., c.l. works lb .29¼ —
extra light bgs. c.l. works, lb .29¼ 30
t.c.l. works lb .30 —
USP, light, ctns lb .35 36
heavy, bbls lb 45 52
Magnesite chemical grade, calcined, powd., bgs. c.l., works, frt equald ton 82.50 —
dead-burnt standard grain, bulk, c.l. Chawelah, Wash ton 40.00 —
Magnesium bromide jars lb 90 1.00
Carbonate tech bgs c.l., frt. equald lb .10½ —
t.l., frt. equald lb. .11 - —
l.c.l., frt. equald lb. .12 .13

If you're working on dyes, pharmaceuticals or surface active agents—

Consider **DU PONT**

N-Methylglucamine



A polyhydroxyamine now available in commercial quantities in a technical grade

PHYSICAL PROPERTIES

APPEARANCE: Off-white, needle-shaped crystalline powder

MOLECULAR WEIGHT: 195.21

MELTING POINT: 128° C. Minimum

PURITY: 99% Minimum

SUGGESTED USES: Du Pont N-Methylglucamine Technical may be used as an intermediate and solubilizing agent in the preparation of many interesting and valuable products, such as:

- Surface active agents, including detergents, emulsifiers, foam builders and thickeners
- Pharmaceuticals and physiologically active compounds, salts and complexes
- Stabilized diazo compounds (used in textile dyeing and printing)

Du Pont N-Methylglucamine Technical may also be used as a printing assistant and as a stabilizer and metal deactivator in chlorine-containing polymers.

REACTIONS: In general, N-methylglucamine exhibits the characteristic reactions of aliphatic amino alcohols. For example, N-methylglucamine reacts:

With alkyl halides to produce tertiary amines

With 2-aminoethylsulfuric acid to produce aminoethylmethylglucamine

With dimethyl sulfate to produce N,N-dimethylglucamine

FOR FURTHER INFORMATION, just drop us a note. We'll be glad to send you our product information sheet and a free test sample of Du Pont N-Methylglucamine Technical if you wish. Address: E. I. du Pont de Nemours & Co. (Inc.), Organic Chemicals Dept., Chemicals Division, Wilmington 98, Delaware.

DU PONT
REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING
...THROUGH CHEMISTRY

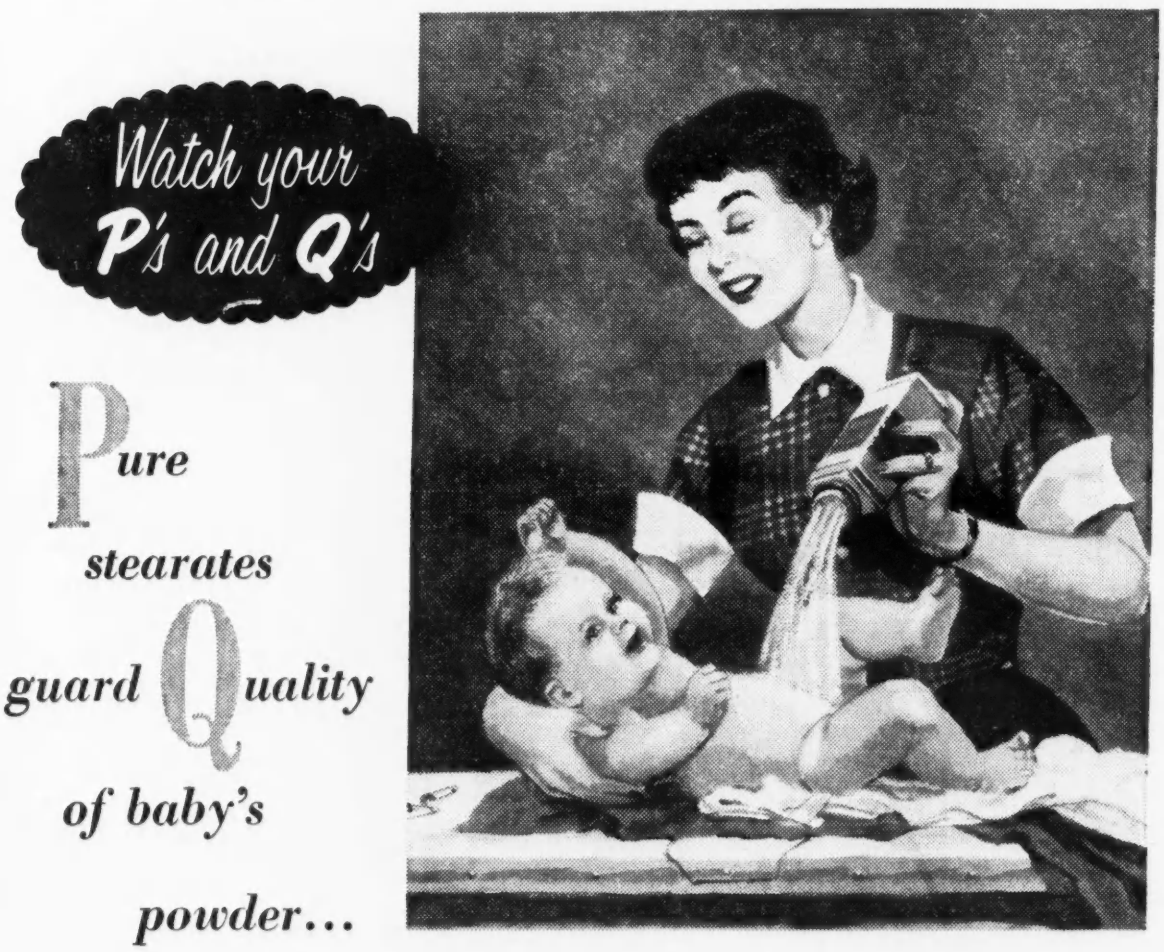
ORGANIC CHEMICALS DEPARTMENT

Magnesium carbonate, USP, bgs., c.l., frt. equald ..lb. .12½ - —
t.l., frt. equald ..... lb. .13 — —
l.c.l. frt equald ..... lb 14 15
Above prices are quoted f.o.b. works, freight equalized with metropolitan New York and competitive producing points
Chloride, anhyd., 92% flake or pebble, dms., c.l., works ..lb. .12½ - —
l.c.l., works ..... ton 65.00 80.00
Gluconate, dms., cns ..... lb. 1.34 1.41
Hydroxide, NF, medicinal, bbls., dms., kgs ..lb. .29½ .30
Metal, 99.8% ingots, 10,000 lb. lots or more, works ..... lb. .36 - —
pigs, 10,000-lb. lots or more, works ..lb. .35½ - —
sticks, cs., works, frt. alld. on carlots ..lb. .39 - —
Oxide (see Magnesia, calcined).
Nitrate, cryst., dms., works ..lb 20 —
Peroxide, 15%, dms, works ..lb 1.00 1.05
Phosphate, tribasic, NF, bbls ..lb. .75 - —
Silicate (see Talc).
Silicofluoride, dms., works ..lb. .10½ .12
Sulfate, tech., bgs, c.l., works ..... lb 14 - .15
t.c.l. same basis ..lb 14 - .15
hydrous, 99% flake, bgs., c.l., works ..ton 55.00 - —
100 lbs 2.15 —
l.c.l. works ..... 100 lbs 2.90 3.15
USP, cryst., bgs., c.l., works ..... 100 lbs. 2.35 - —
l.c.l. 5,000 lbs., 1 with-drawal ..... 100 lbs 3.10 - —
smaller lots ..... 100 lbs 3.35 - —

Magnesium trisilicate, USP, dms., 5,000-lb. lots ..lb. .38 - —
1,000-lb. lots ..... lb. .40 - —
100-lb. lots ..... lb. .45 - —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.
Malathion, dms., c.l., works ..... lb. .90 —
l.c.l., works ..... lb. .92 1.02
Maleic anhydride, dms., c.l., dlvd. E ..lb. .27 - .28½
l.c.l., dlvd. E ..... lb. .28 - .29½
tanks, dlvd. E ..... lb. .26 - .27½
Prices on maleic anhydride W. of Rockies, 1½c. higher.
Mandrake root, bls ..... lb. .55 - .60
Manganese acetate, bbls, dlvd ..lb. .25 - —
Arsenate, bgs ..... lb. .16 - —
Borate, tech., fib. dms ..... lb. .25 - —
Carbonate, bbls., works ..... lb. .22 —
Chloride, anhyd., dms., works ..lb. .25½ - —
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, burlap paper lined, bgs., gross for net, works ..ton 102.00 - —
paper bgs., works ..ton 98.50 - —
dms., works ..... ton 106.50 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots $3 per ton higher.
Gluconate, dms ..... lb. 1.30 - 1.64
Hydrate, bbls, dlvd ..... lb .36 —
Hypophosphite, NF, dms ..... lb 3.52 - —
Linoleate, liq., 4.35% Mn, dms ..lb. .32½ - —
solid, precip., 8.2% Mn, bbls ..lb. .37½ - —

Manganese naphthenate, liq., 6% Mn., dms., frt. alld ..lb. .27 - —
Resinate, fused, 3½% Mn, dms. ..lb. .24 - —
precip., 6½-7% Mn, dms ..lb .28 - —
Sulfate, fertilizer grade, 65% sulfate, c.l., dlvd, S. E ..ton 88.55 - —
l.c.l., dlvd, S E ..... ton 95.55 - —
Tallate 6%, dms ..... lb .24 - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ..ton 66.00 - —
So. American 30% tannin, c.l., ex dock ..ton 55.00 - 58.00
Mannitol, com'l, fib. dms., ton lots, works ..lb. .60 - —
dms. to ton lots, works ..lb. .62 - —
single dm., works ..... lb. 65 - —
MBTS (see Mercaptobenzothiazyl disulfide).
MBT (see 2-Mercaptobenzothiazole).
Melamine, bgs., c.l., works ..... lb. .30 - —
l.c.l., works ..... lb. .31 - —
Menadione, USP, bots. ..... gram .04 - .05
Menthol, nat., USP, Brazilian, cs ..lb. 6.40 - 6.50
syn. USP racemic, cns ..... lb 4.95 - —
Menthyl salicylate, tins ..... lb 4.00 - 4.25
2-Mercaptobenzothiazole, bgs., fib. dms., ton-lots works, frt. alld ..lb. .42 - —
less ton lots, same basis ..lb. .44 - —
Mercaptobenzothiazyl disulfide, bgs., fib dms., ton-lots works, frt. alld ..lb. .52 - —
less ton lots, same basis ..lb. .54 - —
Mercuric chloride, NF, cryst., dms., 50-lb lots or more ..lb. 4.98 - —
gran. or powd., dms., 50-lb. lots or more ..lb. 4.78 - —
Cyanide, NF, VIII, powd., fib. dms. ..lb. 6.84 - —
Iodide, red, NF, fib dms ..lb 7.72 - —
Oxide, red, NF, powd., fib. dms ..lb 5.97 6.01
Yellow, tech. (see Yellow mercury oxide).
USP, fib. dms ..... lb. 6.14 - —

Mercurous chloride (see Calomel).
Iodide, yellow, NF ..... lb. 7.72 - —
Mercury, ammoniated (see White precipitate USP)
Metal, 76 lb. per flask ..net flask 255.00 - 257.00
Mesityl oxide, dms., c.l., dlvd ..... lb. .14½ - —
l.c.l., dlvd ..... lb. .15½ - —
tanks, dlvd ..... lb. .12 - —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanitroaniline (see m-Nitroaniline).
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine).
Metatoluidine (see m-Toluidine).
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld ..gal. .75 - —
syn., Zone 1, dms., c.l., dlvd. or truckload min., frt. alld. ..gal. .46 - —
l.c.l., same basis ..... gal. .53 - —
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area ..gal. .33 - —
4,000 gal., min., frt. alld. or dlvd ..gal. .30 - —
4,000 gal., min., works, Carteret, Camden, N. J ..gal. .27½ - —
Zone 2, dms., c.l., or truckload min. frt. alld. or dlvd ..gal. .49 - —
l.c.l., same basis ..... gal. .56 - —
tankwagon, 2,000-4,000-gal. lots, min., dlvd. Metropolitan areas ..gal. .36 - —
tanks, 4,000 gal., min., frt. alld. or dlvd ..gal. .33 - —
Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methenamine (see Hexamethylenetetramine).
dl-Methionine, fib. dms., frt. alld. 50-lb or more ..lb 3.50 - —
feed grade, 98%, fib. dms., same basis ..lb 2.65 - —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld ..lb. .61 - .64
Methyl abietate, non-ret, dms., c.l., dlvd, zone 1 ..lb. .20½ - —
l.c.l. same basis ..lb. .21 - —
hyrogenated, non-ret., dms., c.l., dlvd, Zone 1 ..... lb. .21 - —
l.c.l. same basis ..lb .21½ - —
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.
Acetone, nat., dms., l.c.l., E. of Miss., frt. alld ..gal. .62½ - —
syn., dms., c.l., frt. alld, E ..gal. .63½ - —
l.c.l., frt. alld, E ..... lb. .69½ - —
tanks, frt. alld, E ..... gal. .48½ - —
Synthetic methyl acetone E territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.
Acrylate, dms., c.l., t.l., dlvd ..lb. .39 - —
t.t.l., dlvd ..... lb. .40 - —
tanks, dlvd ..... lb. .37 - —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd, E. ..lb. .16 - —
l.c.l., dlvd, E ..... lb. .17 - —
tanks, dlvd, E ..... lb. .13½ - —
Ketone, dms., works ..... lb. 1.05 - —
Anthranilate, cns ..... lb. 2.35 - 2.65
Benzoate, cns., dms ..... lb. .60 - .75
Bromide, jobbers, cyls., various sizes, frt. alld, E ..lb. .47 - .61
Cellulose, special vis. (1,500-4,000 cps.), 50 lb. bgs, c.l., works ..lb. .78 - —
2,000-lb. lots and more, same basis ..lb. .65 - —
smaller lots, frt. alld. on 100 lbs. ..lb. .89 - 1.00
standard vis. (15,400 cps.), 50-lb. bgs., c.l., frt. alld ..lb. .60 - —
2,000-lb. lots and more, same basis ..lb. .72 - —
smaller lots, frt. alld. on 100 lbs ..lb. .75 - .85
Chloride, indust., cyls., frt. equald. ..lb. .22 - —
tanks, multi-unit, same basis. ..lb. .15¾ - —
single unit, same basis ..lb. .12 - —
refrigerator mfrs., cyls., dlvd. ..lb. .46 - .48
other consumers or service men, cyls., dlvd ..lb. .67 - —
Chloroform (see 1,1,1-tri-chloroethane).
Cinnamate, cns ..... lb. 1.55 - 1.80
Cyclohexanol, dms., c.l., works ..lb. .35½ - —
l.c.l., works ..... lb. .36 - —
tanks, works ..... lb. .34 - —
Ethyl ketone, dms., c.l., dlvd. ..lb. .14½ - —
l.c.l., dlvd ..... lb. .15½ - —
tanks, dlvd ..... lb. .12 - —
Formate, refd., dms ..... lb. .35 - .40
tech., non-ret, dms., any quantity, works ..lb 10 —
Heptin carbonate, bots ..... lb. 31.00 - 42.00
p-Hydroxybenzoate, fib. dms ..lb 1.90 - 2.00
Ionone, standard, cns., dms. ..lb. 5.00 - 5.25
Isobutyl carbinol, dms., c.l., dlvd. ..lb. .16½ - —
l.c.l., dlvd ..... lb. .17½ - —
tanks, dlvd ..... lb. .14 - —
Ketone, dms., c.l., dlvd ..... lb. .16½ - —
l.c.l., dlvd ..... lb. .17½ - —
tanks, dlvd ..... lb. .14 - —
Methacrylate, dms., c.l., t.l., frt. equald, with Melle, W. Va ..lb. .31 - —
smaller lots, same basis ..lb. .31½ - —
tanks, same basis ..... lb. .29 - —
Naphthyl ketone, cryst., cns ..lb. 3.00 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate)
Roseaniline chloride, NF, fib. dms., 5-lb. dms. ..... lb. 6.54 - —
Salicylate, USP, cns., 500-lb. lots ..lb. .59 - —
Testosterone, USP, 100-gram bots. ..gram .68 - —
2-Methylbenzylamine, dms., l.c.l, works ..lb. 1.25 - —
2-Methylbenzyl dimethylamine, dms., c.l., works ..lb. 1.89 - —
l.c.l., works ..... lb. 1.90 - —
2-Methyl-5-ethyl pyridine, dms., c.l., works ..lb. .445 - —
l.c.l., works ..... lb. .45 - —
tanks, works ..... lb. .43 - —
Methylene blue, fib. dms., 100-lb. lots frt. adjusted ..lb. 3.40 - —
Chloride, tech., dms., c.l., dlvd. E. ..lb. .13¼ - —
l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .11¾ - —
b-Methylnaphthalene, 32°C. m.p., dms., works ..lb. .90 - —



Pure stearates guard Quality of baby's powder...

Even trace impurities could irritate his tender skin—no wonder so many baby powders are made with pure Metasap stearates . . . dependably the cleanest stearates made!

This trusted purity helps guard product quality in many other industries too — in textiles, foods, recordings, greases — where even a few tiny specks of foreign material might harm the reputation and performance of the product.

For at Metasap, our primary aim is to turn out the cleanest stearates made anywhere in the world! Fine modern equipment is backed up at Metasap by the most thorough series of fine screens, magnetic traps and filters to be found in the industry. (We even carefully filter the air.) So depend on this — for stearates of supreme uniformity and quality, come to Metasap. Our technical service department will gladly advise and assist you.

Some industries served by Metasap

PAINT *makers solve pigment suspension problems with Metasap Stearates, producing primers and sanding sealers that have excellent filling qualities.*

LACQUER AND VARNISH *makers use Metasap Stearates to assure efficient flatting, and to obtain better finishes.*

PLASTICS *molders use Metasap Calcium, Zinc, and Barium Stearates to improve internal lubrication, which assures superior preforms, better finished products, and longer mold life.*

RUBBER *processors use Metasap Zinc and Magnesium Stearates to lubricate molds and prevent uncured stock from sticking.*

LUBRICANTS—*Grease makers use Metasap Stearates because these outstanding soaps afford a wide range of quality bases that help producers to meet any grease specifications.*

PAPER, *Textiles, Cosmetics, Food Processing, Pharmaceuticals, and many other industries call upon Metasap Stearates to perform important services.*

METASAP CHEMICAL COMPANY
HARRISON, NEW JERSEY • Chicago, Ill.
Boston, Mass. • Cedartown, Ga. • Richmond, Calif.
A NOPCO Subsidiary
the cleanest stearates made

Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-Phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works lb. .04 - —
roofing, 20 to 80 mesh, works lb. .03 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .06½ —
t.c.l., ex-whse lb. .07¼ —
paint or lacq., bgs., c.l., 325 mesh, works, frt. alld. E lb. .08¼ —
t.c.l. ex-whse or frt. alld. E lb. .09 - —
rubber, bgs., c.l., works, frt. alld, E lb. .08 - —
t.c.l. ex-whse or frt alld. E lb. .08¾ —
wallpaper, bgs., c.l., works, frt. alld. E lb. .08¾ —
t.c.l. ex-whse or frt alld. E lb. .09 - —
white, 5-10 microns, bgs., c.l., works, frt. alld. E lb. .08¼ —
t.c.l. ex-whse or frt. alld. E lb. .09 —
Mica, wet-grd. W of Miss. ½c. higher; W of Rockies, 1c higher
Mineral spirits (see Petroleum mineral spirits)
Molasses blackstrap feed grade, tanks, New Orleans gal. .26 - .27
New York gal. .27 - —
Molybdenum (metal), powd., 80 or 200 mesh ctns works kilo. 7.84 - —
325 mesh ctns., works kilo. 9.13 - —
Trioxide, pure, dms., works lb. 1.15 - —
tech dms works, basis Mo. content lb. 1.39 - —
Monobutylamine dms., c.l., E. of Rockies lb. .55½ —
t.c.l., same basis lb. .56½ —
tanks, same basis lb .53 —
Monochlorobenzene, dms., c.l., frt. alld or dlvd E lb. .10 - —
t.c.l. same basis lb. .11 - —
tanks, same basis lb. .08½ —
Monoethanolamine dms., c.l. dlvd. E lb. .27½ —
t.c.l. same basis lb. .28½ —
tanks, same basis lb. .25 - —
Monoethylalphanapthylamine (see N-Ethyl-a-naphthylamine)
Monoethylamine 70% contained amine, dms., c.l. dlvd. E lb. .37½ —
t.c.l., dlvd E lb. .38½ —
tanks, dlvd E lb. .35 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylorthotoluidin (see N-Ethyl-o-toluidine).
Monoisopropanolamine dms., c.l., dlvd. E lb. .27½ —
t.c.l. same basis lb. .28½ —
tanks, same basis lb. .25 —
Monoisopropylamine dms. c.l. dlvd. lb. .32½ —
t.c.l. same basis lb. .33½ —
tanks same basis lb. .30 - —
Monomethylamine, 30-35% soln., dms., c.l. frt. equald. 100% basis. lb. .40 - —
t.c.l. frt equald 100% basis. lb. .40½ —
tanks frt. equald 100% basis. lb. .31 - —
40% soln., dms., frt. equald, 100% basis lb. .37 - —
t.c.l. frt equald. 100% basis. lb. .37½ —
tanks frt equald 100% basis. lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate monobasic)
Phosphate (see Sodium phosphate monobasic).
Mono tertiary butylmetacresol (see 6-tert-Butyl-m cresol)
Morphine cns oz. 12.40 -12.60
Acetate anhyd. cns oz 9.95 10.00
Hydrobromide, cns oz 9.90 9.95
Hydrochloride NF cns oz 9.90 9.95
Sulfate USP cns oz 9.90 10.05
Morpholine, dms., c.l. dlvd E lb. .55¼ —
t.c.l., dlvd E lb. .56¼ —
tanks dlvd E lb .52¾ —
Musk syn ambrette, 100-lb lots, fib. dms lb. 4.45 5.15
25-lb lots cns lb. 5.05 5.65
5-lb lots, cns lb. 5.20 5.50
ketone, 100-lb. lots, fib. dms lb. 4.70 5.30
25-lb lots cns lb 5.35 - —
5-lb lots, cns lb. 5.45 - —
xylol, 100-lb lots, fib dms lb. 1.40 - —
25-lb lots cns lb. 1.45 - —
5 lb lots cns lb 1.50 - —
Mustard seed, Danish, yellow, bgs lb 10½ —
Dutch, bgs. lb. .10½ —
English, yellow, bgs. lb. .11 - —
Montana, oriental, bgs lb. .08½ Nom.
Yellow, bgs lb. .10½ —
Myrobalans, J-1, genuine, bgs., ex-dock ton. 63.00 -64.00
crushed, bgs ex dock ton. 79.00 -80.00
Bombay, bgs., ex dock ton. 61.00 -62.00
Extract, Indian, solid, 55% tannin, bgs., ex dock, plus duty lb. .10 .10¼

N

Naphtha, painters (see Petroleum naphtha V. M. & P.)
Solvent (see S)
Naphthalene crude, dom. 74°, tanks, frt equald lb. .06¼ —
73° bgs. c.l., same basis lb. .07½ .08
t.c.l. same basis lb. .07¾ .08¼
tanks same basis lb. .07 —
Imp., 73° bgs., large lots lb. .05 Nom.
refd., indust., chipped, crushed, bgs., frt. alld lb. .12½ —
tanks, same basis lb. .11¾ —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis, lb. .15½ —
cs. 50 lbs. c.l., same basis lb. .15¾ —
1-lb pkgs., c.l., same basis lb .18½ —
a-Naphthol bbls. frt. alld lb 1.00 - —
b-Naphthol tech., flake, bbls., c.l., works lb. .33 - —
t.c.l., works lb. .35 - —
Benzoate, fib dms., works lb 3.00 - —
custom contract works lb 1.65 - —
Salicylate dms lb 5.00 - —
Sulfate cns lb 35.00 - —
a-Naphthylamine bbls. frt alld lb .50 - —
b-Naphthylamine tech. flake, bbls., works lb. 1.60 - —
Neocinchophen USP dms., frt. adjusted lb. 7.00 - 8.00
Neomycin, fib. dms., 5 kilo lots, basis, activity gram .45 - —
100-999 gram lots, basis, activity, gram .55 - —
Nerolin, cns lb. 2.45 - 2.65
Niacinamide (see Nicotinamide).
Nickel acetate, bbls. dlvd lb .77 - .90½
Carbonate, bbls. dlvd lb 73¾ - .81¾
Chloride bbls. dlvd lb 38½ - .46½
Formate bbls. ton lots, frt. alld lb .68 - .69
Metal, electro cathodes, cs., works lb. .64½ —
Nitrate, bbls. works lb .37 - .39
Oxide, black, bbls lb. 76 - —
green bbls lb. 76 - —
Sulfate, bgs. c.l., dlvd lb .30¼ —
t.c.l. dlvd lb. .31¼ .38¼

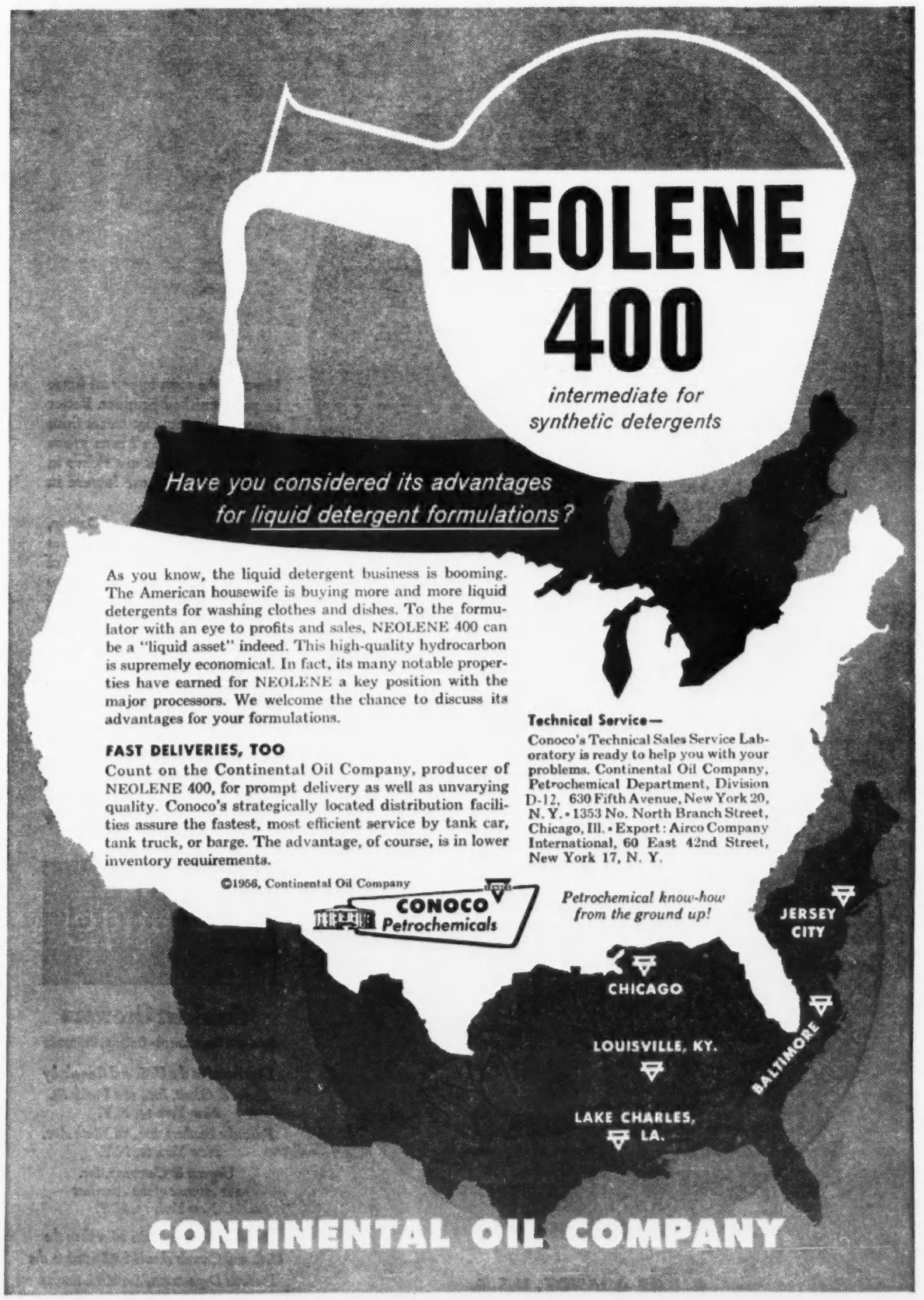
Nicotinamide, USP dms., frt. adjusted kilo. 12.00 -12.30
Hydrochloride dms. frt adjusted. kilo. 11.50 -11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld lb. 1.20 - —
manufacturers, 500-lb. dms., frt. alld lb. 1.05 - —
Niger seed, bgs lb. .12 - .12½
Nikethamide, cbys lb. 7.50 - —
m-Nitroaniline cryst. dms. frt. alld. lb. 1.15 - —
paste, dms., frt. alld., 100% basis. lb. 1.10 - —
o-Nitroaniline, flaked, dms. t.l., frt. alld lb. .49 - —
t.t.l., frt. alld lb. .51 - —
p-Nitroaniline, dms. frt alld lb. .445 - —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .14 - —
t.c.l., frt. alld lb. .15 - —
tanks, frt. alld lb. .12 - —
Nitrocellulose, ester soluble, 30-35 cps., ¼, ½, 3/4, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .34 - —
t.c.l., same basis lb. .35 - .37
18-25 cps bbls., c.l., same basis lb. .36 —
t.c.l. same basis lb. .37 - .39
250-400, 600-1,000 secs., bbls., c.l., same basis lb. .39 - —
t.c.l. same bassi lb. .40 - .42
spirit-soluble, 30-35 cps., ¼, ½, secs., bbls., c.l., same basis lb. .41 - —
t.c.l. same basis lb. .42 - .44
5-6 cps., 40-60 secs. bbls., c.l., same basis lb. .40 - —
t.c.l., same basis lb. .41 - .43

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

o-Nitrochlorobenzene, dms. c.l., frt. alld lb. .15 - —
t.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
p-Nitrochlorobenzene, dms lb. .26 - .27
2-Nitro-4-chlorophenol dms lb. .75 - —
Nitroethane, dms., c.l., dlvd. E lb. .24 - —
t.c.l., dlvd E lb. .24¾ —
tanks, dlvd. E lb. .22½ —
Nitroethane prices West of Rockies are 1c. higher
Nitrogen solutions, tanks frt. equald. unit. 1.14 - —
Nitrogenous process tankage, bulk works unit-ton 3.00 4.00
Sewage sludge, bulk, works, unit-ton. 2.95+ .50
Nitromethane, dms., c.l. dlvd. E lb. .24 - —
t.c.l., dlvd E lb. .24¾ —
tanks dlvd. E lb. .22½ —
Nitromethane prices West of Rockies are 1c. higher
a-Nitronaphthalene, bbls. frt. alld. lb. .41 - —
Nitropropane-1 and -2, dms., c.l., dlvd. E lb. .22½ —
t.c.l. dlvd E lb. .23¼ —
tanks, dlvd. E lb. .21 - —
Nitropropane prices West of Rockies are 1c. higher.
o-Nitrophenol, dms. works, frt. equald lb. .94 - —
p-Nitrophenol, dms., frt. alld. c.l. lb 51 - —
t.c.l., lb 53 - —
o-Nitrotoluene dms. c.l. frt. alld lb .10 - —
t.c.l. frt alld lb 11 - —
tanks, frt alld lb 09 —
m-Nitro-p-toluidine, dms lb 1.59 - —
Nitrous ether conc. nots 100-lb. lots lb 1.28 1.35
Nonyl phenol dms. c.l frt alld lb. .26½ —
t.c.l. frt. alld lb .27½ —
tanks, frt. alld lb 24½ —
Nutgalls, Aleppo bgs lb .30 .38
Chinese bgs lb No prices.
Nutmeg, East Indian, bgs lb. 2.80 - —
West Indian, bgs lb. 2.80 - —
Nux vomica bis lb 10 12
powd. bbls. bxs lb 15 .17

O

Octane indust., tanks Bayonne, N. J gal. .19 - —
Baytown Tex gal. .15¾ —
Borger, Tex gal. .15¾ —
1-Octanol, tech. dms., c.l., dlvd. lb. .35 —
t.c.l. dlvd lb. .37 - —
tanks, dlvd lb. .32½ —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Octyl Phenol—Oil, Soybean

Octyl phenol, bgs., c.l., works .. lb. .24 - —
l.c.l., works ..... lb. .24½- —
tanks, works ..... lb. .23 - —
Drum prices for octyl phenol are 1¢ higher.

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity quality or in individual suppliers, views.)

Oil, abies, siberica, cns ..... lb. 4.00 - —
Almond artif. bitter (see Benzaldehyde)
nat., bitter, F.P.A., bots lb 3.00 3.75
NF, bots. lo 3.25 3.75
sweet, USP, cns. dms lb 1.25 - —
Allspice (see Oil, pimento).
Amyris, dms. ..... lb 1.25 - —
Angelica root, bots ..... lb 66.00 -100.00
seed, bots ..... lb 56.00 95.00
Aniline (see A).
Anise, USP, dms ..... lb 3.50 4.00
Apricot, kernel, USP dms .... lb. .48 - .65
Avocado, cns. ..... lb 3.25 —
Bay, NF, Puerto Rican, 50-55% cns lb. 2.15 - 3.00
55-60%, cns ..... lb. 2.50 - 3.00
West Indian 50-55% cns., dms. lb 1.85 2.40
Bergamot, nat., NF Italian, cns. lb. 9.75 -11.00
Birchtar, crude, cns ..... lb 1.50 - 1.90
rectified, NF, cns ..... lb 1.75 - —
Bois de rose, Brazil, dms ..... lb. 3.70 - —
Mexican (see Oil, lignaloe wood).

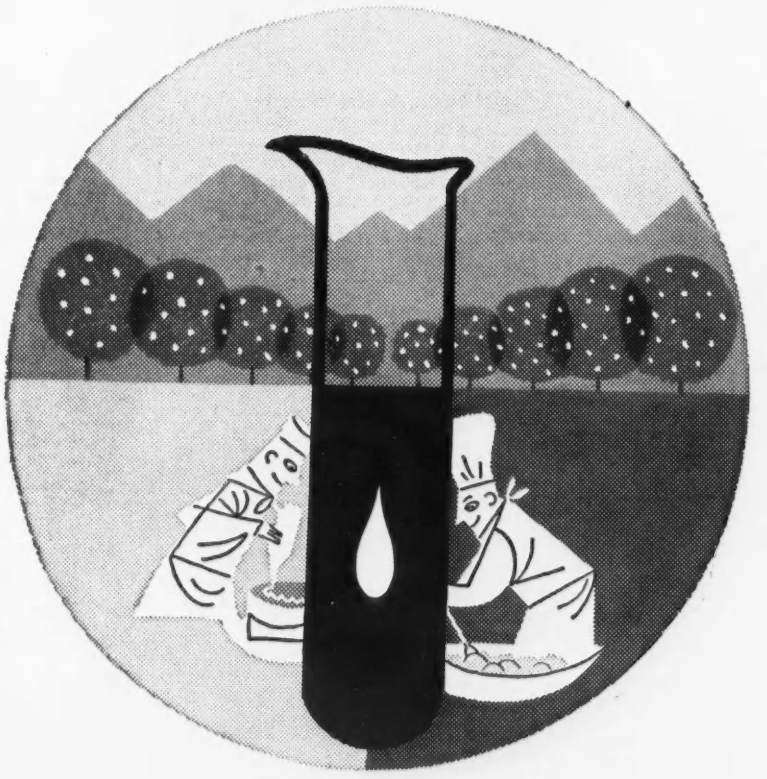
Oil, bone, dms., works ..... lb. .65 - .70
Cajeput, native, cns. ..... lb. 1.75 - 3.30
redist., USP, cns ..... lb 2.25 - 3.40
Calamus, bots ..... lb. 12.00 -20.00
Camphor, sassafrassy, dms.... lb. .30 - .45
white, dms ..... lb. .29 - —
Cananga, native, cns ..... lb. 6.50 - 8.75
rectified, cns ..... lb. 10.00 -13.00
Caraway, NF, cns ..... lb. 3.65 - 4.00
Capsicum (see Capsicum oleoreson).
Cardamom, NF, bots ..... lb. 38.00 -40.50
Cassia, USP (see Oil, cinnamon, USP).
Castor, dom. blown, dms., c.l. . lb. .2800- —
l.c.l. ..... lb. .2900- —
dehydrated, bodied, dms., c.l. lb. .2960- —
l.c.l. ..... lb. .3060- —
tanks ..... lb. .2760- —
unbodied, dms., c.l ..... lb. .2810- —
l.c.l. ..... lb. .2910- —
tanks ..... lb. .2610- —
hydrogenated, bgs., ton lots lb. .3325- —
l.c.l., dlvd ..... lb. .3525- —
No. 1, dms, c.l. ..... lb. .2450- —
l.c.l. ..... lb. .2550- —
tanks ..... lb. .2250- —
No. 2, tech., dms., c.l ..... lb. .2275- —
l.c.l. ..... lb. .2400- —
tanks ..... lb. .2100- —
USP, dms., c.l ..... lb. .2600- —
l.c.l. ..... lb. .2700- —
tanks ..... lb. .2400- —
imp. No. 1, Brazilian, tanks lb. .2200- —
Sulfonated, 50%, dms., works lb. .15¼- .15½
75%, dms., works ..... lb. .20 - .20½
Cedarleaf, USP, XIII, cns., dms. lb. 3.65 - —
Cedarwood, cns., dms ..... lb. .65 - 1.00
Celery seed, bots. ..... lb. 8.00 -20.00

Oil, chamomile, blue, Hungarian, bots. lb. 190.00 -195.00
Chenopodium, NF, cns. ..... lb. 4.50 - 4.75
Chinawood (see Oil, tung).
Cinnamon, bark, bots ..... lb. 36.00 -70.00
leaf, crude, dms ..... lb. 1.60 - 2.00
USP cns., dms. (Cassia) .... lb. 10.25 -10.90
Citronella, Ceylon, cns., dms. lb. .66 - —
Java, cns. ..... lb. 1.95 - —
Java-type, cns ..... lb. 1.50 - —
Clove, bud, USP, cns., dms .... lb. 2.65 - 2.90
leaf, crude, dms ..... lb. 1.20 - 1.50
Coconut, crude, tanks, N. Y. .. lb. .12¾- —
Pac. coast ..... lb. .11¾- —
refd., Cochin type, dms., tax incl., lb. .19 - .19⅛
deodorized, tax incl., dms lb. .22 - .23
Cod, Newfoundland, dms .... lb. .11½- .11¾
Codliver, USP, dms ..... gal. 1.45 - 1.55
Copaiba, cns. ..... lb. 1.75 - 2.50
Coriander, USP bots. ..... lb. 11.75 - —
Corn, crude, tanks, works .... lb. .15 - —
foots (soapstock), acid 95%, tanks, N. Y. lb. .05½- —
refd., salad, dms ..... lb. .2046- .2075
tanks ..... lb. .1846- —
Costus, bots. ..... oz. 8.00 - —
Cottonseed, crude, tanks South East .. lb. .14⅝- .14¾
Valley ..... lb. .14½ Nom.
Texas, Lubbock ..... lb. .14⅜ Nom.
Waco ..... lb. .14⅜ Nom.
foots (soapstock), acid 95%, tanks, N. Y. lb. .04¾- —
refd., salad, dms ..... lb. .20⅛- .20½
tanks ..... lb. .18⅛- —
Creosote (see Creosote, coaltar).
Cubeb, cns ..... lb. 4.10 - 4.25
Cumin, bots., cns ..... lb. 4.75 - 5.00
Cypress, bots. ..... lb. 5.30 - —
Degras (see D).
Dillseed, bots ..... lb. 2.80 - 4.25
Dillweed, dom., bots., dms .... lb. 3.25 - 4.25
Dip (see D)

Oil, erigeron, cns ..... lb. 5.50 - 7.50
Eucalyptus, NF, rect., 70-80% dms. lb. .62 - —
80-90%, dms. ..... lb. .72 - —
Fennel, sweet, USP, cns ..... lb. 2.85 - —
Fir, Canada, cns ..... lb. 4.75 - —
Fish, refd., alkali, dms ..... lb. .1400- .1450
kettle-bodied, dms ..... lb. .1630- .1680
light-pressed, dms ..... lb. .1250- .1300
tanks ..... lb. .1100- —
Fishliver, crude for feeds or concentrating 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms., 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gram, dms., 1,000,000 units. .10½- .11
100,000 A units per gram, dms 1,000,000 units. .14 - —
200,000 A units per gram, dms 1,000,000 units. .15½- —
500,000 A units per gram, dms 1,000,000 units. .16 - —

Prices above are based on the USP XIV method of conversion, Morton Stubbs Corrected E x 1900.

Fusel (see F).
Garlic, pure, bots ..... oz. 4.75 - —
Gaultheria (see Oil, wintergreen)
Geranium, Algerian, cns ..... lb. 13.50 -14.50
Bourbon, cns. ..... lb. 13.75 - —
Turkish (see Oil palmarosa).
Ginger, dist., bots ..... lb. 18.50 -19.50
Grapefruit, dms ..... lb. 1.65 - —
Grease, No. 1, dms., c.l. ..... lb. .15¼- —
l.c.l. ..... lb. .16¼- .18¼
extra, winter, strained, dms., c.l. lb. .17¼- —
prime, burning, dms, c.l ..... lb. .18¾- —
l.c.l. ..... lb. .19¾- .21¼
Guaiacwood, cns. ..... lb. 1.60 - —
Hemlock, cns ..... lb. 2.10 - 2.30
Juniper berry, NF, VIII, bots. lb. 2.75 - 4.00
twice rectified, bots ..... lb. 3.60 - 7.00
Tar, NF (see Juniper tar)
Wood, tech., cns. ..... lb .38 - .55
Lard (see Oil, grease).
Laurel leaf, dms., cns ..... lb. 9.75 -12.50
Lavandin, dms., cns ..... lb. 2.55 - 2.95
Lavender, flower, USP, French, 35-37% ester, cns ... lb 2.85 - 4.60
38-40% ester, cns ..... lb. 9.25 -10.00
40-42% ester, cns ..... lb. 10.00 -14.00
spike, Spanish, cns ..... lb. 2.05 - 2.60
Lemon, USP, Calif., cns., dms lb. 4.25 - 5.00
Messina, cns. ..... lb. 5.75 - —
terpeneless, bots. ..... lb. 50.00 -85.00
Lemongrass, cns., dms ..... lb. 1.65 - —
Lime, dist., Mexican, cns ..... lb. 4.75 - —
West Indian, cns ..... lb. 4.75 - —
expressed, West Indian, cns lb. 6.00 - 8.00
terpeneless, bots ..... lb. 50.00 -85.00
Lignaloe wood, Mex., cns ..... lb. 4.65 - 5.00
Linseed, raw, dms., c.l., N. Y. lb. .1730- —
l.c.l. ..... lb. .1830- .1860
tanks, f.o.b. Minneapolis .. lb. .1400- —
New York ..... lb. .1530- —
tankwagon, New York .... lb. .1560- .1570
Boiled linseed oil, .006c per lb higher.
Mace, dist., cns., dms ..... lb. 11.00 - —
Mandarin (see Oil, tangerine).
Menhaden, crude, tanks, works, Atlantic & Gulf .. lb. .09¼- .09⅜
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms. ..... lb. .17½ Nom.
syn., bots ..... lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms lb. .30 - .33
20° cold test, dms ..... lb. .29 - .32
30° cold test, dms ..... lb. .28 - .31
Neroli, NF, French bots ..... lb. 575.00 - —
Nutmeg, USP, dist., East Indian, cns., dms .. lb. 12.50 -16.00
West Indian, cns., dms .... lb. 12.50 -16.00
Ocotea cymbarum, dms ..... lb .50 - .60
Oiticica, liq., dms. ..... lb. .17 - .17½
tanks ..... lb. .15½- —
Oleo, extra, dms. ..... lb. .20 Nom.
Olibanum, bots ..... lb. 5.50 - 7.65
extra fine, bots ..... lb. 8.00 - 9.00
Olive, edible, Spanish, dms., duty-paid gal. 3.30 - 3.40
Orange, expressed, USP, Brazilian, cns., dms lb. No stocks.
Calif., cns. ..... dms. .60 - 1.75
Florida, cns., dms ..... lb. .50 - .60
Messina, cns. ..... lb. 3.85 - 5.85
West Indian, cns., dms lb. 2.50 - 3.65
sesquiterpeneless, bots. .... lb. 65.00 -120.00
Origanum, Spanish, cns ..... lb 2.00 - —
Palm, clarif., dms ..... lb. .1550 .1650
tanks ..... lb .1290- —
Palmarosa, cns ..... lb. 8.25 - 9.00
Paraffin, pale, 100-110 vis., at 100° F. tanks, East Coast refy gal. .14 - —
Patchouli, dms ..... lb. 6.00 - —
Peach kernel, USP (see Oil apricot kernel).
Peanut, crude, tanks, f.o.b. mills. lb. .19 - .19⅛
refd., dms. ..... lb. .24¾- .25
tanks ..... lb. .22¾ Nom.
Pennyroyal, USP, imported, cns. lb 2.75 3.50
Peppermint, nat., dms ..... lb. 4.75 - 6.50
redist., USP, dms ..... lb. 5.25 - 6.75
Persic, USP (see Oil, apricot kernel).
Petitgrain, South American, cns., dms. 3.05 - 1.75
Pimento, berry, NF, dms ..... lb. 4.50 - 5.00
leaf, cns. ..... lb. 2.05 - 2.60
Pine, dest.-dist., dms., l.c.l., works. lb. .12¼- —
ex whse. ..... lb. .14¼- —
steam-dist., dms., ex whse. N.Y.C lb. .176 - —
dlvd. ..... lb. .179 - —
Pineneedle, Siberian (see Oil, abies siberica).
Rapeseed, tankcars ..... lb. .18½- —
Red (see Acid, oleic).
Rice bran, clarif., dms., l.c.l. lb. .18 Nom.
tanks, dlvd. E ..... lb. .15 - .15½
Rose, nat., Bulgarian, bots oz. 43.00 -57.00
Rosemary, Spanish, USP, cns., dms lb. .60 - 1.00
tech., cns. dms ..... lb. .50 - .70
Rue, bots ..... lb. 2.00 2.50
Safflower, dms., N. Y. ..... lb. .1785- .1835
tanks, same basis ..... lb. .1585- —
Sage, clary bots ..... lb. 18.75 -19.00
Dalmatian, cns ..... lb. 4.30 - —
Spanish, cns. ..... lb 1.20 - 1.45
Sandalwood, NF, cns ..... lb. 14.00 - —
Sardine crude, tanks, Pac. coast. lb. .08½- .08¾
Sassafras, artif., dms ..... lb. .48 - .60
nat., dom., USP, dms ..... lb. 1.45 - 2.10
imp., Brazilian (see Oil ocotea cymbarum).
Savin, cns ..... lb. 2.75 - —
Savory, cns. ..... lb. 4.25 - —
Sesame, USP, dms ..... lb. .38 - .39
Shingle stain, tar distillate, dms., c.l., works gal. .35 - —
l.c.l., works ..... gal. .44 - —
tanks, works ..... gal. .23 - —
Snakeroot, Canada, cns ..... lb. 27.50 -31.00
Soybean, crude, tanks, Decatur. lb. .14⅜- —
foots soapstock, acid, 95% tanks, N. Y. lb. .06 - —
refd., alkali, dms ..... lb. .18825- .1900
tanks ..... lb. .16825- —
clarified, dms ..... lb. .18325- .1850
tanks ..... lb. .16325- —
salad, dms ..... lb. .19⅛- .19¼
tanks ..... lb. .17⅛- —



OIL OF ORANGE, U.S.P.

Flavor is the most important factor in your finished product. Better *orange* flavor naturally comes from *better oranges*, and all tests prove California oranges are richer in flavor strength, more intense in aromatic constituents.

Wherever you use Oil of Orange, be sure your supplier provides Exchange Brand California Oil of Orange. No other oil of orange has the world-wide reputation of Exchange Brand, produced by the people who know citrus best—the Sunkist Growers of California.

Flavor is one of your least expensive ingredients. Doesn't it seem foolish to settle for cheaper, inferior orange oil when flavor is so important yet costs so little? Ask your supplier for Exchange Brand Oil of Orange, with its consistent year-after-year quality and its richer orange flavor.

Exchange

Sunkist Growers

Products Department • Ontario, California

Distributed in the U.S. and Canada by
Dodge & Olcott, Inc., 180 Varick St.
New York 14, N.Y.
Fritzsche Brothers, Inc., 76 Ninth Ave.
New York 11, N.Y.
Ungerer & Company, Inc.
161 Avenue of the Americas
New York 13, N.Y.

Inquiries from countries other than the U.S. and Canada should be directed to the Products Department, Sunkist Growers.

Oil, spearmint, USP, dms. lb. 4.40 - —
Sperm bleached winter, 45° dms. lb. .1675- .1725
tanks lb. .1500- —
nat. winter, 45°, dms. lb. .1575- .1625
tanks lb. .1400- —
Spruce, cns., dms lb. 2.10 - 2.75
Sweet birch USP Northern, cns. lb. 4.25 9.50
Southern, cns lb. 2.30 - 2.75
Tall, crude, dms., c.l., works lb. .03¾- .04¼
tanks, works lb. .02½- —
dist., dms., c.l., works lb. .07½- —
l.c.l., works lb. .07¾- —
tanks, works lb. .06¼- —
refd., dms., c.l., works lb. .06½- .06¾
lb. .06½- .06¾
l.c.l. works lb. .06¾- .07¼
tanks, works lb. .05¼- .05¾
Tallow, acidless, dms., c.l. lb. .13½- —
l.c.l. lb. .14½ .16
Tangerine Floridian dms lb. 2.00 - 3.80
Tansy, dms lb. 7.50 - 8.40
Tar acid (see T's).
Pine, comt. dms., c.l., works lb. .0561- —
l.c.l., works lb. .0634- —
whse lb. .0745- —
tanks works lb. .046 - —
rectified, NF, dms., incl., l.c.l., works, South gal 1.05 - —
ex whse, N. Y. C gal. 1.15 - —
refd., dms., incl., l.c.l., works, gal. .92 - —
N. Y. whse. gal. 1.02 - —
Theobroma (see Cocoa butter)
Thyme, NF, red, cns., dms. lb. 1.45 - 1.75
white, cns. lb. 1.70 - 2.00
tech white cns lb. 40 - 1.85
Tung, dms., c.l., N. Y. lb. .25½- —
l.c.l., same basis lb. .26 - .26½
tanks, N. Y lb. .24 - —
domestic mills lb. .23 Nom.
Turkey red (see Oil, castor, sulfonated)
Turpentine, NF cns. dms. lb .28 - 45
Veviter, Bourbon, cns lb. 11.75 - 11.90
Haitian, cns. lb. 9.25 - 10.00
Java cns lb. 18.50 - 20.00
Wheat, germ, 5-gal. dms gal. 11.20 - —
White mineral, tech., 50-65 vis., non-ret. dms c.l., f.o.b. N. Y gal. .53 - —
65-75 vis. non-ret., dms. c.l., same basis gal. .56 - —
l.c.l., same basis gal. .61 - —
80-90 vis., non-ret., dms., c.l., same basis gal. .57 - —
l.c.l., same basis gal. .62 - —
135-138 vis., non-ret. dms., c.l., same basis gal. .63 - —
l.c.l., same basis gal. .68 - —
145-155 vis. non-ret. dms., c.l., same basis gal. .69½- —
l.c.l., same basis gal. .74½- —
USP, 180-190 vis., non-ret. dms., c.l., same basis gal. .71 - —
l.c.l., same basis gal. .76 - —
200-210 vs., non-ret dms., c.l., same basis gal. .75 - —
l.c.l., same basis gal. .79 - —
345-355 vis. non-ret. dms., c.l., same basis gal. .78½- —
l.c.l., same basis gal. .84½- —
Wintergreen, USP, nat., Northern, cns. lb. 6.35 - 10.20
Southern cns lb 3.20 - 19.50
syn (see Methyl salicylate)
Wood (see Oil tung).
Wormseed (see Oil, Chenopodium NF).
Wormwood, cns lb 5.50 6.85
Ylang-ylang, Bourbon, bots lb. 14.00 - 16.00
extra bots lb 28.00 - 40.00
Madagascar bots lb No stocks
Oleostearine, dms. lb. .16½- .17
Opium, USP, cns oz. 19.20 19.45
gran., USP, cns oz. 21.65 21.90
powd USP cns oz 21.65 21.90
Orange cadmium-selenide lithopone, light shade bbls., frt. alld E. of Rockies lb. 1.80 - —
deep shade, bbls lb. 2.00 - —
Cadmium-mercury lithopone, deep shade, bbls lb. 1.78 - —
Chrome CP, bbls., dlvd N of Tennessee and N.C., E of Miss. R., include Davenport, Tenn., and E of Minneapolis Rock Island, St. Louis, St. Paul lb. .33½- .35
Chrome orange prices are ½c higher dlvd Ala., Fla., Ga., La (Shreveport); 1½c, Miss., N. C., S. C., Tenn. Dallas and Ft. Worth, Tex., El Paso Tex.; 2c, Cedar Rapids, Des Moines, Kansas City Lincoln, Omaha St. Joseph; 1.6c, higher dlvd, Pac. Coast for Denver Pueblo, Salt Lake City Wichita prices are equalized with Chicago.
Dinitroaniline toner CP lb 1.45 —
Mineral American, bbls., l.c.l., works lb. .2235- —
Molybdated, bbls. lb. .46 - .46½
o-Nitroaniline toner kegs. lb 1.15 - —
Orange peel, bitter, Haitian, bls lb. .14 - .16
sweet, bls lb. .16 - .18
Orris root, Florentine, bls lb. .55 - —
powd., bbls., bx lb. .68 - —
Verona bls. lb .35 - .40
powd., bbls., bxs lb. .43 - —
Orthoaminobiphenyl (see o-Aminobiphenyl)
Orthoanisidin (see o-Anisidine)
Orthochloroanilin (see o-Chloroaniline).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde)
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline)
Orthochlorophenol (see o-Chlorophenol)
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene)
Orthonitrobiphenyl (see o-Nitrobiphenyl)
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol)
Orthonitrophenol (see o Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidin (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).
Orthotolidin (see o-Tolidine base).
Orthotoluidin (see o-Toluidine).
Osage, orange, cryst., No. 1, bbls. l.c.l. lb. .40 - —
extract liq. No. 1, bbls., l.c.l., lb. .19 - —
Ouabain, USP bots gram. 3.00 - 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works lb. 4.75 - 5.00
smaller lots, works lb. 4.92 - 5.17

P

Papain, USP, African, bots lb. 3.50 - 4.00
Ceylon lb. 3.00 - 3.50
Papaverine, nat. or syn. hydrochloride, USP, cns., 25-oz. to 100-oz. lots oz. 5.00 - —
smaller lots oz. 5.05 - 5.20
Sulfate cns. oz. 7.10 - 7.35
Paprika, Roumanian, bgs lb. .26 - —
Spanish, bgs lb. .60 - —
Yugoslavian, bgs lb. .33 - —
Para-aminophenol (see p-Aminophenol)
Para-anisidin (see p-Anisidine).
Parachloro-orthonitroanilin (see 4-Chloro-2 nitro aniline).
Parachloranilin (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude, scale, white, 123°-127°F, ASTM, tanks, refy. lb. .0710- —
fully refd., 122°-124°F, ASTM, tanks, refy lb. .0815- —
123°-127°F, ASTM, tanks, refy lb. .0815- —
130°-132°F, ASTM, tanks, refy lb. .0815- —
132°-134°F, ASTM, tanks, refy lb. .0815- —
135°-137°F, ASTM, tanks, refy lb. .0815- —
AMP temperatures are an arbitrary 3°F higher than ASTM
Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld lb. .11¼- —
l.c.l., frt. alld lb. .13¼- .14¼
powd., bgs., c.l., frt. alld lb. .16 - —
l.c.l., frt. alld lb. .17½- —
USP, X, fib. dms., c.l. lb. .183 - —
1,000-lb lots lb. .193 - —
smaller lots lb. .208 - —
Paraldehyde, tech., 98% dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .11½- —
Paranitroanilin (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrotoluene (see p-Nitrotoluene).
Paranitrophenol (see p-Nitrophenol).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert Amylphenol)
Para-tertiary butylphenol (see p-tert-Butylphenol)
Parathion, spray powder, 15% dealers, bgs., dms., frt. alld lb. .50 .53
tech., dms., c.l., t.l., works lb 1.3395 —
l.c.l., works lb 1.51 —
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paris green, dealer, dms., c.l., frt. alld lb. .44 .47
l.c.l., same basis lb .45 .48
Passion flower herb, bls. lb. .25 —
Peanut meal, 45%, old process, bgs. mills ton. 55.90 Nom.
Pectin, citrus, NF, powd., bbls lb 2.05 2.06
tech., powd., bbls. lb 1.25 —
Imported, Danish, ex whse cs 1.28 —
Penicillin, crystalline, potassium, bulk 1,000,000 units. .050 - .057
Procaine, bulk 1,000,000 units. .050 - .057
Sodium, bulk 1,000,000 units. .0475- .0695
Pentachlorophenol, dms., c.l., t.l., works, frt. equald lb .22 —
l.c.l., same basis lb .23½ .30
Pentaerythritol, tech., bgs., c.l., works lb .32 —
l.c.l., works lb .33 —
Di and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, indust., tanks., Tex. refy. gal. .13 - —
Pepper, black, Malabar, spot bgs. lb. .28½- —
red, Gondar, spot bgs lb No prices.
Japanese, hontaka bgs lb. .34 - —
birdseyes, bgs., new crop lb No prices.
Pepper, red, Mombasa, bgs., shipt. lb. .56 - .57
Nigerian, bgs lb .42 —
Turkish bgs lb .28 —
white, bgs lb .35 .36
Peppermint leaves, USP dom., bls. dms lb 70 75
imp., bls lb. .85 —
Perchloroethylene, dms., c.l., or truckloads, dlvd lb 13 —
l.c.l., dlvd lb 14½- —
tanktruck, 1,000 gal., min. dlvd lb .12 —
tanks dlvd lb 11½ —
Peru balsam, dms lb 1.35 —
Petrolatum, extra amber, dms., c.l., refy lb. .06½- —
l.c.l., dlvd lb. .03¼- —
tanks, refy. lb. .04¼- —
cream, dms., c.l., refy lb. .07½- —
l.c.l., dlvd. lb. .03¼- —
tanks, refy. lb. .05¼- —
USP, white, bly, dms., c.l., refy. lb. .07¾- —
l.c.l., dlvd lb. .10¼- —
tanks, refy lb. .05¾- —
snow, dms., c.l., refy lb. .08¾- —
l.c.l. dlvd lb. .10¾- —
tanks, refy lb. .06¾- —
yellow, soft, dms., c.l., refy lb. .06½- —
l.c.l., dlvd lb. .08¼- —
tanks, refy lb. .04¼- —
Petroleum, lacquer diluent, 150°-240°F. b.r., tanks, West Coast, ex tax Los Angeles gal 169 204
East coast N. J., N. Y. gal 19 —
Group 3, benzol-type gal 14125 14625
toluol-type gal. 13125 13375

BECCO®
PEROXYGEN CHEMICALS
for the Drug and Cosmetic Industry

Becco's vast experience and long history of peroxygen chemicals leadership can be of valuable assistance to you in the formulation of antiseptics, hair preparations, denture cleaners and other cosmetic products.

Here are some of the products with which Becco serves the cosmetic industry:

Hydrogen Peroxide
Antiseptic
Hair Bleaching
Hair dyeing aid
Cold wave neutralizer

Peroxides
Dusting powder
Antacid

Sodium Perborate
Home permanent neutralizer
Denture cleaner
Tooth powder ingredient
Hair dyeing aid

Persulfates
Hair bleaching

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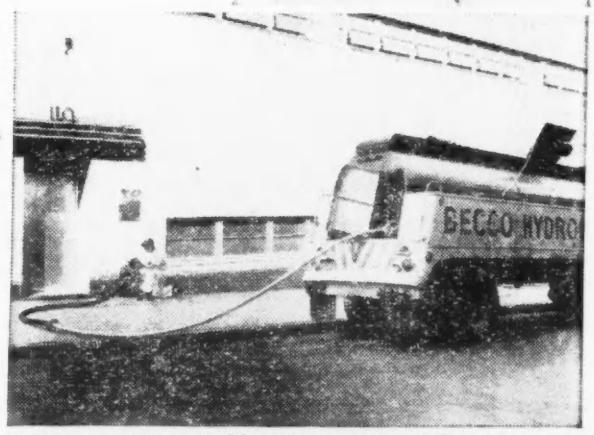
BECCO...Progress in Peroxygens



Hydrogen peroxide can be delivered to your doorstep from Becco's strategically located distribution centers throughout the country. Whether in aluminum drums, by truck or tank car, Becco can fill your peroxygen chemical needs promptly . . . prompt technical service is available too, from chemically-trained field representatives.

A beauty parlor permanent is a time-honored rite for millions of women. Hydrogen peroxide is used in the neutralizing wash which follows application of the waving lotion. Other peroxygen chemicals are often used in the home permanent kits which cater to the "do-it-yourself" movement.

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Becco Peroxygen Chemicals: Hydrogen Peroxide • Sodium Perborate • Peracetic Acid • Persulfates and others

FMC CHEMICALS INCLUDE: BECCO *Peroxygen Chemicals* • WESTVACO *Phosphates, Barium and Magnesium Chemicals* • WESTVACO *Alkali, Chlorinated Chemicals and Carbon Bisulfide* • NIAGARA *Insecticides, Fungicides and Industrial Sulphur* • OHIO-APEX *Plasticizers and Chemicals* • FAIRFIELD *Pesticide Compounds and Organic Chemicals*

Petroleum—Pitch

Petroleum, mineral spirits, reg. tanks, Calif., ex tax San Francisco	gal.	.164	—
East coast, N.J., N.Y.	gal.	.17	—
Group 3	gal.	.11875	—
tankwagon, Boston	gal.	.19	—
Buffalo	gal.	.195	—
Chicago	gal.	.279	—
Cleveland	gal.	.22	—
Newark	gal.	.18	—
New York	gal.	.18	—
Philadelphia	gal.	.185	—
Pittsburgh	gal.	.18	—
Providence	gal.	.195	—
odorless, tanks, rcfy., Watson, Cal	gal.	.245	—
Borger, Tex.	gal.	.24	—
Houston, Tex.	gal.	.24	—
Wood River, Ill.	gal.	.2025	—
N.J., dlvd	gal.	.32	—
N.Y., dlvd	gal.	.33½	—
tankwagon, N.J., dlvd	gal.	.36	—
N.Y., dlvd.	gal.	.37	—
Naphtha, cleaners, tanks, East Coast, N.J., and N.Y.	gal.	.17	—
Group 3	gal.	.12875	—
tankwagon, Newark	gal.	.18	—
New York	gal.	.18	—
Philadelphia	gal.	.185	—
High solvency (see Petroleum solvent, partial aromatic).			
VM&P, 225°-300°F., b.r., tanks, West Coast, Los Angeles	gal.	.169	—
Portland, Ore	gal.	.175	—
San Francisco	gal.	.174	—
Seattle, Wash	gal.	.175	—

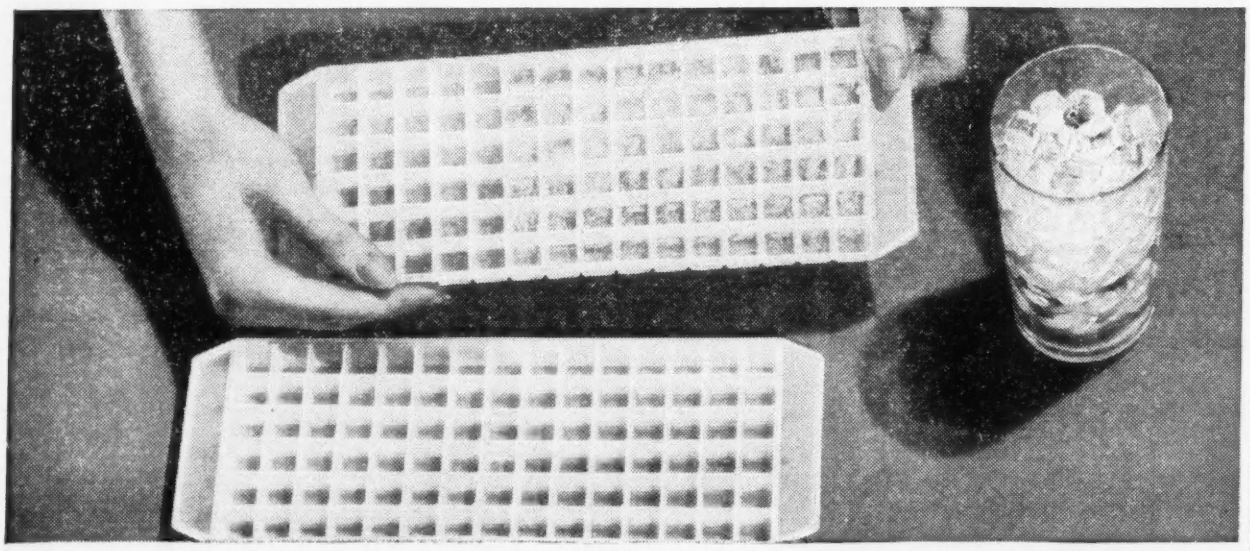
Petroleum, naphtha, VM&P, 225°-300°F., b.r., tanks East Coast, N.J. and N.Y.	gal.	.18	—
Group 3	gal.	.12875	—
tankwagon, Boston	gal.	.205	—
Chicago	gal.	.289	—
Cleveland	gal.	.23	—
Newark	gal.	.195	—
New York	gal.	.195	—
Philadelphia	gal.	.20	—
Pittsburgh	gal.	.19	—
Solvent, partial aromatic, tanks, 205°-282°F., b.r., 41°C., m.a.p., N.Y., N.J.	gal.	.245	—
212°-278°F b.r. 43°C m.a.p., N.J.	gal.	.26	—
212°-284°F b.r. 19°C m.a.p., N.J.	gal.	.29	—
224°-280°F., b.r., 48°C. m.p.a., Houston	gal.	.215	—
273°-361°F b.r., 29°C. m.a.p., N.J.	gal.	.29	—
282°-325°F b.r., 41.5°C. m.a.p. Houston	gal.	.25	—
287°-386°F. b.r. 31°C. m.a.p., N.J.	gal.	.29	—
310°-314°F., b.r., 13.5°C., m.a.p., Texas City	gal.	.33	—
310°-348° b.r., 17°C., m.a.p., N.Y., N.J.	gal.	.35	—
320°-360°F., b.r., 16°C. m.a.p., N.Y., N.J.	gal.	.33	—
324°-349°F., 37°C., m.a.p., Houston	gal.	.33	—
341°-390°F., b.r., 35°C., m.a.p., N.J.	gal.	.27	—

Petroleum solvent, partial aromatic, tanks, 352°-413°F., b.r., 30°C., m.a.p. Houston	gal.	.33	—
358°-401°F., b.r., 25°C., m.a.p., N.Y., N.J.	gal.	.39	—
364°-404°F b.r., 19°C. m.a.p., N.Y., N.J	gal.	.425	—
367°-418°F. b.r., 19.6°C. m.a.p., N.Y., N.J	gal.	.33	—
Rubber, tanks, Cal., ex tax, San Francisco	gal.	.173	—
East Coast, N.J., N.Y.,	gal.	.18	—
Group 3	gal.	.12875	—
Stoddard, tanks, East Coast, N.J., N.Y.	gal.	.17	—
Group 3	gal.	.12375	—
Pennsylvania western	gal.	.15	—
tankwagon, Boston	gal.	.19	—
Chicago	gal.	.289	—
Cleveland	gal.	.22	—
Los Angeles, ex tax	gal.	.194	—
Newark	gal.	.18	—
New York	gal.	.18	—
Philadelphia	gal.	.185	—
Pittsburgh	gal.	.18	—
Sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works	lb.	.16½	.18¾
l.c.l., works	lb.	.17½	.19
tanks, works	lb.	.14½	.17
50-55% sulfonic content, non-ret. dms., c.l., works	lb.	.16	—
l.c.l., works	lb.	.17	—
tanks, works	lb.	.13	—
o-Phenetidine, dms., t.l., frt. alld. E	lb.	.91	—
l.c.l., same basis	lb.	.93	—
p-Phenetidine, dms., c.l., frt. alld.	lb.	1.00	—
l.c.l., same basis	lb.	1.03	—
Phenobarbitol, USP, dms., 100-lb. lots	lb.	3.25	—

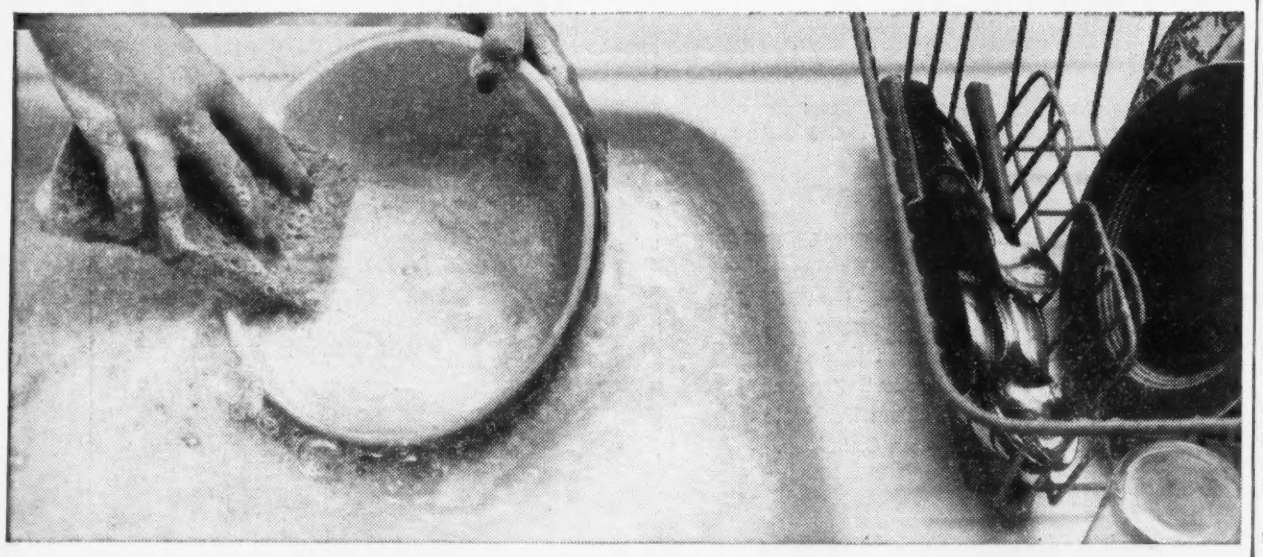
Phenobarbital-sodium, USP, dms., 100-lb. lots	lb.	3.25	—
Phenol, 90-92% (cresol 8-10%), non-ret. dms., c.l. frt. alld E. of Rockies	lb.	.17¾	.18
l.c.l., same basis	lb.	.18¼	.19
tanks, same basis	lb.	.16	—
82-84% (cresol 16-18%), non-ret. dms., c.l., same basis	lb.	.17½	—
l.c.l., same basis	lb.	.18½	—
tanks, same basis	lb.	.15½	—
39°C or above, tar distilled, non-ret dms., c.l., same basis.	lb.	.19¼	.19½
l.c.l. same basis	lb.	.19¾	.20½
tanks, same basis	lb.	.17½	—
USP, syn., dms., c.l., t.l., frt. alld	lb.	.20	—
l.c.l., same basis	lb.	.22	—
tanks, same basis	lb.	.18	—
Phenolphthalein, USP or yellow, bbls., dms., 2,000-lb lots.	lb.	1.15	—
smaller lots	lb.	1.17	1.22
Phenothiazine, NF, fib. dms., c.l., frt. adjusted	lb.	.39	—
over 2,100 lbs., same basis	lb.	.41	—
less than 2,100 lbs., same basis.	lb.	.43	—
Phenyl acetate, dms. 100-lb. lots, works	lb.	.50	—
Salicylate (see Salol.)			
Phenylacetaldehyde, soln., 50%, bots	lb.	2.40	2.70
100%, bots	lb.	4.00	4.65
1-Phenyl-3-carnethoxy pyrazolone-5, 250-lb. fib drms., dlvd E	lb.	3.60	—
smaller dms., dlvd. E	lb.	4.00	—
N-Phenyldiethanolamine, dms., c.l., dlvd. E	lb.	40½	—
l.c.l., dlvd. E	lb.	41½	—
tanks, dlvd. E	lb.	.38½	—
m-Phenylenediamine, dms. frt. alld.	lb.	.85	—
o-Phenylenediamine, comi., 100 to 1,000 lbs., fib. dms., works	lb.	1.70	1.80
p-Phenylenediamine, refd., tech., dms., works	lb.	1.42	—
Phenylethanolamine, dms., c.l., works	lb.	75½	—
l.c.l., same basis	lb.	76	—
dl-Phenylalanine, dms. works	lb.	27.00	37.50
Phenylethyl acetate, bots	lb.	1.25	1.60
Phenylhydrazine base, CP. bots	lb.	3.00	3.07
Hydrochloride comi. kgs., works.	lb.	1.75	—
purif., bots., works	lb.	5.17	—
1-Phenyl-3-methyl pyrazolone-5, 250-lb lots, dlvd. E	lb.	1.80	—
smaller lots, dlivd. E	lb.	2.10	—
Phenylethylphenyl acetate, bots	lb.	4.15	4.35
o-Phenylphenol, dms., l.c.l., works.	lb.	.42	.44
p-Phenylphenol, bgs., c.l., works	lb.	.37	—
l.c.l., works	lb.	.41½	—
Phloroglucinol, comi., fib. dms., works	lb.	6.40	—
C.P., bots., works	lb.	17.75	—
tech., fib. drums., works	lb.	10.45	—
Phosphate, defluorinated (see under D) Rock, Curacao, Atlantic ports, New Orleans	ton.	48.00	—
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines	long-ton.	4.94	4.99
70-68%, b.p.l., c.l., same basis	long-ton.	5.34	5.39
72-70%, b.p.l., c.l., same basis	long-ton.	5.99	—
75-74%, b.p.l., c.l., same basis	long-ton.	6.99	—
78-76%, b.p.l., c.l., same basis	long-ton.	7.99	—

The Florida prices (above) are based on fuel oil at $2.47 per bbl. and labor at $1.43. Recent oil advance currently absorbed.

Phosphorus, amorph., red, dms., t.l., works	lb.	.48	—
smaller lots, works	lb.	.49	.50
white (yellow), solid, dms., c.l., works,, frt. equald	lb.	.20	.20½
l.c.l., works, frt. equald.	lb.	.21½	—
tanks, works, frt. equald.	lb.	.19	—
Oxychloride, dms., c.l., works	lb.	.14	—
l.c.l., works	lb.	.15	—
tanks, works	lb.	.12½	—
Pentasulfide, solid, dms., c.l., works	lb.	.11½	—
l.c.l., works	lb.	.12½	—
Pentoxide, dms., c.l., works	lb.	.13½	—
l.c.l., works	lb.	.16½	—
Sesquisulfide, tins, cs., c.l., works.	lb.	.38	—
l.c.l., works	lb.	.39	.40
Trichloride, dms., c.l., works	lb.	.14	—
l.c.l., works	lb.	.15	—
tankcars, works	lb.	.12½	—
Phthalic anhydride, bgs., c.l., works, frt. equald	lb.	.21	—
l.c.l., same basis	lb.	.22	—
tanks, same basis	lb.	.20½	—
Phthalimide, 97%-98%, dms., frt. equald	lb.	.65	—
Phthalylsulfacetamide, 1,000-lb. lots or more	lb.	5.00	—
NF	lb.	5.20	—
a-Picoline, ret. dms., c.l., works, frt. equald	lb.	.43	.43½
l.c.l., works, frt. equald	lb.	.44	—
tanks, same basis	lb.	.415	.422
b,g-Picoline, 5°C. dms., c.l., works.	lb.	.32½	—
l.c.l., works	lb.	.33	—
g-Picoline, 98%, dms., works	lb.	2.00	—
Pilocarpine hydrochloride, USP, bots	oz.	4.75	5.25
Nitrate, USP, bots., vials	oz.	4.65	4.75
Pimento, Jamaican, bgs	lb.	.72	—
Mexican, bgs	lb.	.36	—
Pink root, bls	lb.	2.50	—
Piperazine, crude, dms., c.l., works.	lb.	3.15	—
l.c.l., works	lb.	3.30	—
Hexahydrate, French Codex, bots.	kilo.	8.00	8.50
Piperidine dist., dms., frt. equald.	lb.	2.60	2.70
Piperonyl butoxide, dms., dlvd. E	lb.	4.50	5.05
Pitch, coaltar, bulk, aluminum, works	ton.	40.00	42.00
carbon and industrial, works.	ton.	40.00	—
core, works	ton.	36.50	—
fiber, works	ton.	44.00	—
Roofing, 140-155°F., Fed. Spec. RP-381, Type I, tanks, works	ton.	39.00	—
Cottonseed, raw, dms., works	lb.	.03	.03¼
tanks, same basis	lb.	.02¾	—
Linseed, dms	lb.	.06	.06¾
Marine, dms	lb.	.04¼	.05
Petroleum (see Asphalt, petroleum).			
Soybean, dms., works	lb.	.05	.05½
Tall, dms., c.l., works	ton.	50.00	70.00
tanks, works	ton.	30.00	40.00



ETHYLENE for plastics



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Enjay Olefins assure better product performance

Whether it's Ethylene for plastics or Tripropylene for detergents, look to Enjay for a dependable supply of diversified, high-quality raw materials.

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OLEFINS (Ethylene, Propylene, Tripropylene, Isobutylene, Tetrapropylene, Nonene); DIOLEFINS (Dicyclopentadiene, Isoprene, Butadiene); and a varied line of LOWER ALCOHOLS, HIGHER OXO ALCOHOLS, AROMATICS, KETONES AND SOLVENTS.

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ENJAY COMPANY, INC., 15 WEST 51st STREET, NEW YORK 19, N. Y. Other Offices: Akron, Boston, Chicago, Tulsa

Plaster of Paris (see Gypsum).
Platinum metal, works ..... oz. 105.00 -107.00
Pleurisy root, bls ..... lb 45 50
Podophyllum resin, NF, dms.. lb. 15.60 -16.10
Poke root, bls ..... lb. .19 .22
Polymyxin, bulk, bots., dms., 50 billion units or more, 1,000,000 units. .52 - —
25-50 billion units 1,000,000 units. .54 - —
1-25 billion units 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate dms 20,000-lb lots, works lb 41 - —
10,000-20,000 lb lots works, lb .43 - —
smaller lots works lb .46 - .48
Tristearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000 lb lots works, lb .43 - —
smaller lots works lb .46 - .48
Poppy seed, Argentine, bgs ..... lb. .24 - —
Dutch, bgs ..... lb. .28 - —
Iranian, bgs ..... lb. .14½ - .15
Polish, bgs ..... lb. .27½ - —
Turkish, bgs ..... lb. .24 - —
Potash caustic, reg. flake, 88-92% dms., c.l., works 100 lbs 9.15 - —
l.c.l., works 100 lbs 10.20 - —
liq., 45% basis dms., c.l., works 100 lbs. 4.25 - —
l.c.l., same basis 100 lbs 5.05 - —
tanks, same basis 100 lbs 3.70 - —
solid, 88-92%, dms., c.l., works, 100 lbs. 8.70 - —
l.c.l., works 100 lbs. 9.75 - —
Potassium acetate, NF, dms lb .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd., dms lb .24 - —
Bichromate, gran., bgs., c.l., t.l., works lb. .18 - —
l.c.l., works lb. 18½ - 19¾
Potassium bichromate in dms. ¾c. higher.
Bitartrate, NF, dom., gran. or powd., bols. 5,000 lbs., 1 ship't. lb. .40½ - —
dms., c.l. to. .40 - —
smaller lots ..... lb. .41 - .43
imp., kgs ..... lb. .32 - .35
Bromate, dms. 1,000 lbs or more, lb. .50 - —
500 lb to lb .52 - .62
Bromide, USP, gran., bbls., kgs, lb. .37 - .38
Carbonate, NF, gran., bbls., dms, lb. .20 - —
powd., bbls., dms lb .21 - .22
tech., calcined, bbls., c.l., works, 100 lbs. 9.00 - —
l.c.l., same basis 100 lbs 10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs 8.65 - —
Chlorate, cryst., dms., c.l., works, lb. .11¼ - —
l.c.l., works lb. .11½ - .12½
powd., dms., c.l., works lb. .11¾ - —
l.c.l., works lb. .12 - .13
NF, gran., 25-lb. metal dms lb. .36 - —
Chloride, agricultural (see Potassium muriate),
industrial 99.9% KCl, bulk, c.l., works ton 29.00 - —
bgs., c.l., works ton 33.50 - —
99.3% KCl, bulk, c.l., works ton 27.00 - —
bgs., c.l., works ..... ton 31.50 - —
USP, cryst., dms ..... lb .21 - .23
gran., dms ..... lb .15 - .17
powd., dms ..... lb .24 - .26
Chromate, tech., bgs ..... lb. .50 - .50½
Citrate, USP, gran., dms ..... lb. .43 - —
powd., dms ..... lb. 40½ - .41½
Cyanide, dms., 20,000-lb. lots or more, works lb. .45 - —
2,000-19,999-lb lots, works lb. .455 - —
smaller lots, works lb. .465 - —
Dichromate (see Potassium bichromate)
Ferricyanide, dms., ton lots, works, lb. .50 - —
smaller lots, works ..... lb. .65 - —
Ferrocyanide, bgs., ton lots ... lb. .23 - —
smaller lots ..... lb. .23½ - —
smaller lots ..... lb. .23 - —
Fluoborate, fib dms, c.l., works lb. .30 - —
l.c.l., works ..... lb. .31 - —
Fluoride, dms., works ..... lb. .37 - .38
Gluconate, dms. ..... lb. 1.60 - —
Guaiacolsulfonate, NF, dms .. lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic)
USP pellets 100-lb dms, 1 to 100-dm lots lb. .28½ - .33
Hypophosphite, NF, fib dms., ton lots or less lb. 1.00 - 1.03
Iodide, dms ..... lb 1.90 - 1.95
Metabisulfite, gran., dms ... lb. .20 - .21
powd., dms lb. .25 - —
Muriate, standard and granular, 59-63% K_2O, bulk, c.l., works, base price, unit-ton. .36 - —
July forward unit-ton. .38 - —
granular, 60-63% K_2O, bgs., c.l., works, base price ton 26.25 - —
July forward ton 27.45 - —
Nitrate, NF, cryst., bbls., 20-ton lots 100 lbs. 16.50 - —
smaller lots ..... 100 lbs. 17.50 -18.00
gran., bgs., 20-ton lots 100 lbs. 9.25 - —
smaller lots ..... 100 lbs. 10.50 -11.00
powd., bgs., 20-ton lots 100 lbs. 10.25 - —
smaller lots ..... 100 lbs. 11.50 -12.00
Oxalate, neutral, tech., fine gran., bbls., dms ..... lb. .30 - .31
Pentaborate, gran., bgs., c.l., works, ton 191.50 - —
dms., ton lots, ex whse ton 198.00 - —
smaller lots, ex whse ton 302.50 - —
Powdered potassium pentaborate $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .18½ - —
l.c.l., works ..... lb. .19 - .20
Permanganate, coml., kgs., works, lb. .24½ - .27½
USP, dms., works ..... lb. .27¼ - .29
Persulfate, bbls., c.l., works lb. .16½ - —
dms., 5-ton lots, works .... lb. .18 - —
1-ton lots, works ..... lb. .20 - —
Pyrophosphate, tetrabasic, dms., works lb. .15½ - .18½
Prussiate, red (see Potassium Ferricyanide), yellow (see Potassium Ferrocyanide).
Silicate, glass, bgs., c.l., works, 100 lbs. 17.00 -17.30
l.c.l., works ..... 100 lbs. 17.80 - —
soln., clarif., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
l.c.l., 5 dms. or more works 100-lbs 6.55 - 6.95
tanks, works 100-lbs 5.45 - —
electrical grade, 29° Be, 1:2.0, dms., c.l., works 100 lbs. 6.50 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.25 - 7.65
tanks, works 100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms., c.l., works 100 lbs. 6.45 - —
l.c.l., 5 dms. or more works 100 lbs. 7.20 - 7.60
tanks, works ... 100 lbs. 6.10 - —

Potassium silicofluoride, bgs., works, lb. .09½ - .10
tanks, works .... 100 lbs. 6.10 - —
Potassium silicofluoride in drums, 0.4c per lb higher
Stannate, dms., frt. alld. E .... lb. .748 - .814
Sulfate, agricultural, 50% K_2O, bulk, works, base price, unit-ton. .64 - —
July forward unit-ton. .67 - —
NF VII, cryst., dms ..... lb. .31 - .33
gran., dms ..... lb. .18½ - —
powder, dms ..... lb. .16 - .17
Sulfocyanate, NF, cryst., (see Potassium thiocyanate).
5-ton lots, works lb. .14½ - —
1-ton lot or less, works lb. .14¾ - —
Thiocyanate, NF, cryst., dms lb. .84 - .94
tech., works ..... lb. .77 - .79
Titanate, ctns., c.l., works lb. .14 - —
Toluene sulfonate, dms., c.l., or t.l., works lb. .42 - —
l.c.l., works lb. .46 - —
Potassium-magnesium sulfate, bulk, works, basis 40% K_2SO_4, 18% MgO base price ton 13.45 - —
July forward ton 14.00 - —
Potassium-sodium tartrate, NF, gran., powd., dms., c.l. lb. .42½ - —
5,000-lb. lots ..... lb. .43 - —
smaller lots ..... lb. .43½ - .49
Potassium-titanium fluoride, fib, dms, works lb. .39 - .40
Potassium-zirconium fluoride, fib, dms, c.l., works lb. .50 - —
l.c.l., works ..... lb. .52½ - .55
Pregnenolone, bots. ..... gram. .45 - —
Acetate, bots ..... gram. .40 - —
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld lb. 2.83 - —
100-500-lb. lots ..... lb. 2.93 - 3.15
Progesterone, USP, bots., 100 gram lots gram .50 - —
Acetate, bots. ..... gram .70 - —
Propane, indust., tanks, group 3 ... gal. .05 - —
N. Y. Harbor ..... gal. .093 - —
n-Propyl acetate, dms., c.l., dlvd. lb. .13¼ - —
l.c.l., dlvd ..... lb. .14¼ - —
tanks, dlvd ..... lb. .11¼ - —
Gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 - 4.40
p-Hydroxybenzoate, USP, dms lb. 2.30 - 2.40
Propyl thiouracil, bots., 50 kilo lots or more kilo 55.00 - —
smaller lots kilo 55.10 - 55.30
Propy thiouracil prices in West 1c higher dlvd. on same basis.
Propylene dichloride, dms., c.l., dlvd., E lb. .09½ - —
l.c.l., same basis lb. .10½ - —
tanks, same basis lb .07 - —
Glycol, indust., dms., c.l., dlvd., E. lb. .16 - —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .13½ - —
USP, dms., c.l., dlvd., E lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .15½ - —
Methyl ether, dms., c.l., dlvd lb. .20 - —
l.c.l., same basis lb .21 - —
tanks, same basis lb. .18½ - —
Oxide, dms., c.l., dlvd., E lb. .17½ - —
l.c.l., dlvd., E lb. .18½ - —
tanks, dlvd., E. lb. .15½ - —
Psyllium seed, black, bgs ..... lb. .28 - .30
blonde, bgs ..... lb 18 - —
husks, bgs lb 40 - —
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb .03⅝ - 04¼
smaller lots lb .03⅞ - 04½
imp., Italian, silk-screen, coarse, bgs., ton lots lb .06½ - —
fine, bgs, ton lots lb .04 - —
sun dried, coarse, bgs ... ton 38.00 - —
Pumpkin seed, bgs lb 25 - 26
Pyrethrin, syn. (see Allethrin)
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works lb 45 - —
powd., 1.3% pyrethrins, bbls., works lb 65 - —
liq., 20-1 basis (2 grams pyrethrins per 100cc odorless base), 100-1 basis (10 grams pyrethrine per 100cc odorless base), dms., works gal. 41.75 - 42.75
oleoresin, dewaxed, 20% dms, works lb 10.00 - —
purif., 20% dms works lb 10.00 - 10.10
Pyridine, denaturing, dms., c.l., works and frt. equald gal 2.77 - —
l.c.l., same basis gal 2.80 - —
refd., 2° non-ret., dms., l.c.l., same basis lb .75 - —
Pyridoxine hydrochloride, bots., 100-gram lots, gram 37½ - —
Pyrites, Canadian, works, long-ton 3.00 - 5.00
Pyrocatechol (see Catechol)
Pyrogallol, NF, 100 lb. dms ... lb. 3.50 - —

Sell on Sight
with sparkling GLASS

Some things just seem to belong in GLASS—including TRONA® *Soda Ash*

Yes, some things like important foods and beverages would seem out-of-place packaged in anything but sparkling-clean glass containers that sell on sight. Dependable glass protects the natural flavor, keeps products looking fresh and appealing. Today's jars and bottles are better and stronger than ever, too, thanks to glassmakers' modern techniques backed-up by key suppliers like AP&CC. Trona® Soda Ash (guaranteed better than 99.5% Na_2CO_3) is free of bicarbonate, low in insolubles and iron, stable in storage and handling, uniform in crystal size and non-dusting; it is an essential ingredient in the manufacture of high quality glass containers—the most versatile and indispensable method of packaging ever devised.

American Potash & Chemical Corporation TRONA

LOS ANGELES • NEW YORK • ATLANTA • SAN FRANCISCO • PORTLAND (ORE.)

Producers of: BORAX • POTASH • SODA ASH • SALT CAKE • LITHIUM • BROMINE • CHLORATES • PERCHLORATES • MANGANESE DIOXIDE • *and a diversified line of specialized agricultural and refrigerant chemicals.*

Plants: TRONA and LOS ANGELES, CALIFORNIA
HENDERSON, NEVADA
SAN ANTONIO, TEXAS (American Lithium Chemicals, Inc.)
Export Div., 99 PARK AVENUE, NEW YORK 16, NEW YORK

Pyroxylin scrap, ungrd., amber, dms., works lb. .20 - —
black, dms., works lb. .12 - —
mixed mottled cms. works lb. .13 —
shavings, amber, cs., works lb. No stocks.
mixed colors, dms., works lb. .11 —
white, china, ivory, dms., works lb. .16 - —
dense opaque dms. works lb. .12 - .15
translucent pastels, cs., works lb. .14 - —
colors, dms., works lb. .16 - —
USP bots lb 9.50 —

Q

Quassia chips lb. .17 - —
Quebracho extract, clarif., grd., 70% tannin bgs c.l., lb. .16½ - .16¾
liq. 35% tannin bbls works lb 08¼ - 08½
solid, clarif., 64% tannin, bgs., c.l., ex-dock, duty extra lb. .12 23 64
ord. 63% tannin ngs c.l. same basis lb 11 21 32 —
Quercitron extract cryst., No. 1, bbls. l.c.l. lb 40 - —
liq. No. 1, bbls l.c.l lb 19 - —
Quicksilver (see Mercury metal)
Quince seed, bgs lb 2.00 Nom
Quinidine sulfate USP cns., 100-oz. lots oz. .73 - .75
Quinine, NF, cns., 100-oz. lots oz. .54 - —
Bisulfate, USP, cns., 100-oz. lots, oz. .37½ - —
Hydrochloride, cns., 100-oz. lots oz. .35 - .47½
Sulfate, USP, cns., 100-oz. lots oz. .29 - .35
Quinoline dms. c.l., frt. equald lb. .50¾ - —
l.c.l., same basis lb. .51¼ - —
tanks, same basis lb. .50 - —

R

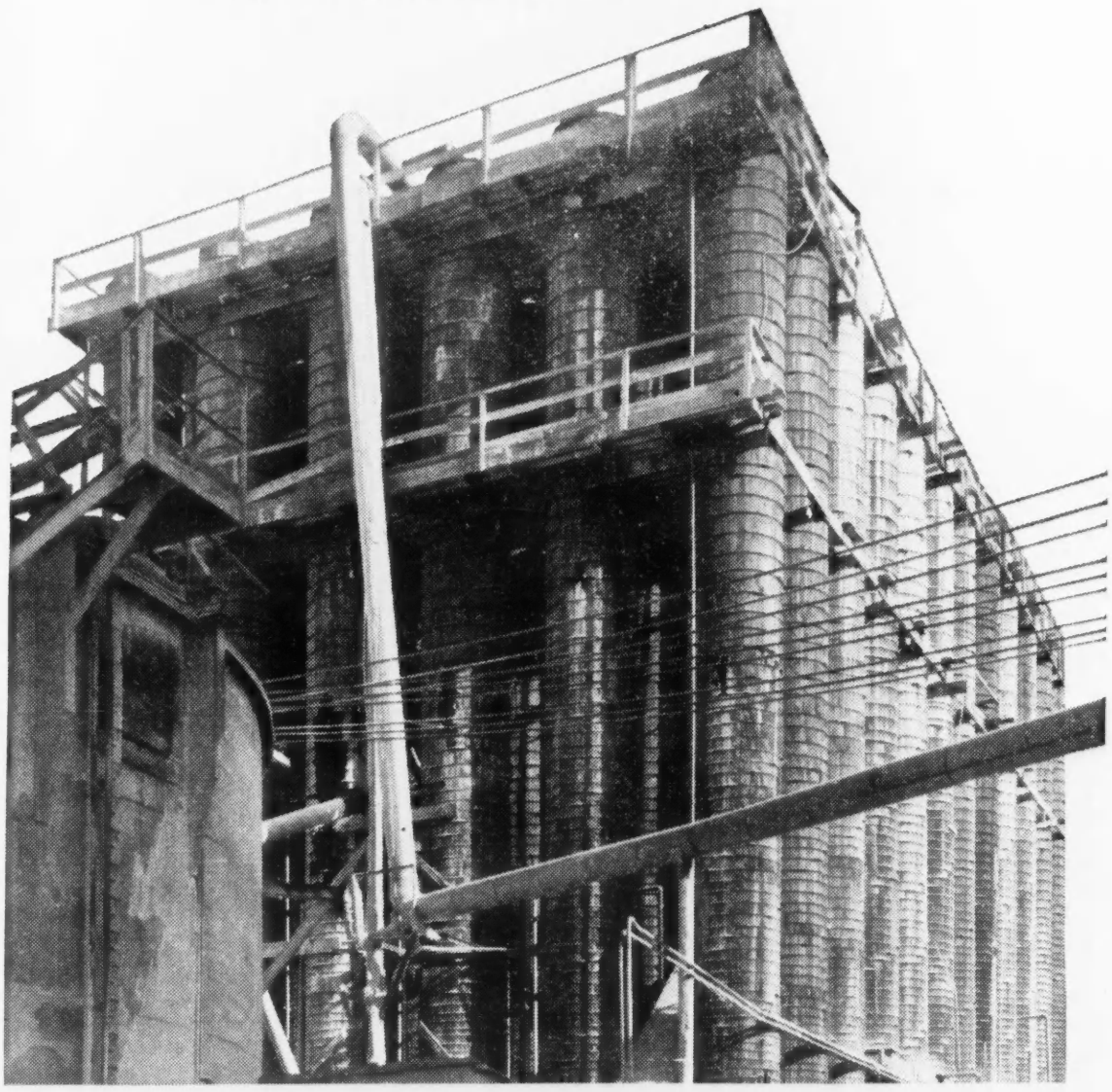
R salt, paste, dms., frt. alld. 100% basis lb .88 - —
powd. frt. alld. 100% basis lb. .98 - —
Rauwolfia serpentina root, powd., bbls., dms lb. 1.75 - —
Red, BON acid maroons, pure, bbls., lb 1.75 - —
resinated, bbls lb 1.50 - —
arylid, deep shades, bbls lb 3.60 - —
light shades, bbls lb 2.75 - —
maroon bbls lb 3.60 5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.30 - —
light shade bbls, same basis lb 4.00 - —
medium shade, bbls., same basis lb 4.25 - —
medium light shade, bbls., same basis lb 4.05 - —
orange shade, bbls., same basis lb. 3.95 - —
orange red, bbls, same basis, lb 1.81 - —
Red, cadmium selenide, lithopone, maroon shade, bbls., same basis lb. 3.77 - —
dark, bbls., same basis, lb. 3.90 - —
red shade, dark, bbls., same basis lb. 3.44 - —
light, bbls., same basis, lb. 2.24 - 2.32
medium, bbls., same basis lb. 2.99 - —
medium light, bbls., same basis lb. 2.49 - —
Mercury lithopone, dark shade, bbls., same basis lb. 2.40 - —
light shade, bbls., same basis, lb. 1.95 - —
medium shade, bbls., same basis lb. 2.25 - —
medium light shade, bbls., same basis lb. 2.10 - —
Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works lb. 1.65 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E St. Louis, N Y lb. .12¾ - —
Iron oxide, nat., 75-85% ferric oxide, bgs, l.c.l., Bethlehem Pa., Copley, O., Easton, Pa., bgs., c.l., works lb. .0675 - —
Lake C toner, alizarine, bbls., works lb. 1.13 - —
rubine toner pure, bbls, works, lb. 1.50 - —
resinated, bbls., works lb. 1.40 - —
Virginia type bbls., works lb. 1.40 - —
Maroon toner, MNPT, kgs., c.l., works lb 3.60 - —
10,000-lb lots, works lb 4.22 - —
smaller lots, works lb 4.24 - —
Mercury oxide, tech., c.l., works, lb. 5.77 - —
Metallic, bbls., c.l., works lb. .02½ - —
l.c.l., works lb. .02¾ - —
Red, naphthol, ITR, bbls., works lb. 5.25 - —
Oxide (see Red iron oxide).
Persian Gulf, bgs., c.l., works, lb. .07¾ - —
l.c.l., works lb. .08 - —
Para toner, bbls lb. 1.10 - —
chlorinated, kgs lb. 1.10 - 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA, kegs lb. 5.35 - 5.60
tungstated, PTMA, works, kegs, lb. 6.40 - —
Spanish oxide, bbls., c.l., ex-dock, lb. .05¾ - —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb. .06½ - —
Toluidine toner, deep shades, kgs., works lb. 1.62 - 1.65
light shades, kgs. works lb 1.62 - 1.65
Turkey, bbls., works lb. .62 - —
Tuscan, bbls., frt. equald lb. .26 .32
Venetian, jobbing, bgs., works lb. .0475 - —
lb. .0475 - —
20%, bgs., works lb. .0525 - —
25%, bgs., works lb. .0575 - —
30% bgs., works lb. .06 - —
35%, bgs., works lb. .0625 - —
40%, bgs., works lb. .0675 - —
Watchung-type bbls m 1.95 —
Red KB base (see 4-Chloro-2-aminotoluene).
Red, precipitate (see Mercuric oxide, red)
Red saunders, NF, powd. bbls lb. .35 .40
Reserpine, cryst., bots gram. 3.75 - —
Resorcinol, tech. grade, dms., c.l., works, frt equald lb. 77½ - —
l.c.l., same basis lb 78½ - —
USP, dms., works lb 2.75 - —
powd., dms., works lb 2.95 - —
Monoacetate, NF dms lb 3.00 3.25
Rhatany root, bgs lb 15 16
Rhodinol, 5-lb. cans lb. 32.00 -36.00
Rhubarb root, India, whole, bgs. lb. .30 - —
powd., bbls lb .38 - —
Riboflavin USP bots., dlvd kilo. 65.00 - —
readily soluble, bots., dlvd kilo. 130.00 - —
5'-phosphate-sodium, bots., 100-kilo lots or more kilo. 125.00 - —
Rochelle salt (see Potassium sodium tartrate).
Roofing pitch (see Pitch, coaltar, roofing)
Rosin gum and wood (see Naval Stores in Protective Coatings market).
Rotenone, fib, dms., works, unit-lb. .12 - —
resin 25-45% fib dms., works, unit-lb. .12 - —
Rottenstone ngs. 5-ton lots ex-whse lb. .03¾ - —
ton lots, same basis lb. .04¼ - —
Rutin, NF, fib. dms., 25-kilo lots, kilo. 17.50 -18.50
10 to 25-kilo lots kilo. 17.50 -20.00
1 to 10-kilo lots kilo. 18.90 -20.00
Ryania, 100% powd. bgs., c.l., works lb. .22 - —
l.c.l. same basis lb .24 - —

S

Sabadilla seed, powd., bbls lb. .49 - 49½
activated, ground with lime, bbls. lb. .30 - .32
Saccharin USP cryst., soluble, dms., 1000-lb lots lb. 1.60 —
smaller lots lb. 1.70 1.80
powd., soluble, insoluble, dms., 1,000-lb. lots lb. 1.65 - —
smaller lots lb 1.75 1.85
Calcium, fib dms 1,000-lb. lots, works lb 2.50 - —
Saffron, Spanish, USP tins lb 45.00 - —
Safrol, dms lb. .90 - 1.05
Sage, Cretan bgs lb. 11 - —
Dalmatian, bgs. lb. 44 —
Italian lb 26 Nom.
Sago flour, raw bgs lb. 07 07¼
refd., bgs lb 08½ - .09
Sal soda (see Soda sal).
Salicylamide, 100-lb dms lb. 1.25 - —
Salol, NF, grnn., bbls., kgs lb 1.15 - —
Powdered salol 25c higher
Salt, rock, paper bgs., c.l. 100 lbs. 1.03½ - —
table, vacuum, common fine, paper bgs., c.l. 100 lbs. 1.27½ - —
Saltcake, dom., bulk works, 100% Na_2SO_4 basis ton 28.00 - —
Saltpeter (see Potassium nitrate).
Sandalwood, East Indies chips bgs. .65 .66
powd., fib dms lb 75 .76
Schaeffer's salt, paste, dms., frt. alld. 100% basis lb .95 - —
powd. bgs. frt alld. 100% basis lb .95 - —
Scopolamine hydrobromide, USP bots oz. 13.50 -16.50
Seidlitz mixture, bbls. 5,000-lb lots lb .30½ —
smaller lots lb 31 .32
Selenium, powd., 99½%, dms., dlvd. lb. 13.50 -15.50
Senega root, bls lb. 2.75 - —
Senna leaves, Alex. whole and half, bls lb. .19 - —
siftings lb. .17 - —
Tinnevelly, No. 1, bls lb. .16 - .18
No. 2 bls. lb. .13 - .15
No. 3, bls. lb. .11 - .13
powdered, bbls., bxs lb. .15 - —
pods bls. lb. .14 - —
Serpentaria root, bls lb 5.50 - —
Sesame seed, Egyptian, hulled, bgs. lb. .22½ - —
nat., bgs. lb. .17 - —
Nicaragua, hulled, shipt., bgs. lb. .25 - —
nat., bgs lb. 16½ - —
Salvadorian, natural, bgs lb. .21½ - —
Indian, natural, bgs. lb. N.P.
Shellac, bleached, bonedry, bgs., 2,500-lb. lots lb. .54 - —
bbls., 1,500-lb. lots lb. .55 - —
kgs., 1,500-lb. lots lb. .56 - —
refd., bgs., 1,500-lb. lots lb. .64 - —
bbls., 1,500-lb. lots lb. .65 - —
kgs., 1,500-lb lots lb. .66 - —
Bonedry shellac prices for less than 1,500 lb. lots 1c. per lb higher for all packages.
Lemon, No. 1, bgs., 10-bg. lots lb. .47 - —
No. 2, bgs., 10-bg. lots lb. .45 - —
Superfine, bgs., 10-bg. lots lb. .44 - —
Shellac in 1 to 10-bg. lots 1c per lb more.
Shingle stain oil (see Oil, shingle stain)
Silica, amorph., dry-grd. 325 mesh, bgs., c.l., works ton 25.00 —
l.c.l. works, exwnse ton 45.00 -55.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton 20.00 —
l.c.l. works ton 25.00 -30.00
140 mesh, bgs., c.l., works ton 15.00 - —
l.c.l., works ton 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb .18 - —
l.c.l. works lb .22 - .30½
tanks, works lb .17 —
Silver bullion, ingots, cs. Troy oz. .91⅛ - —
Cyanide, fib dms., 2,500-oz. lots, oz. .87 - —
1,000-oz. lots oz. .87⅜ - —
500-oz. lots oz. .87½ - —
100-oz. lots oz. .87¾ - —

about satisfying details in soda ash orders...

When you write your requirements as to shipping date, routing, acknowledgments and advices into an order, we know you do it for a reason...and that's reason enough for us to pay the very closest attention to every detail. We consider it our responsibility to fill orders exactly as written.



WEST END
West End Chemical Company
DIVISION OF STAUFFER CHEMICAL COMPANY
EXECUTIVE OFFICES, 1956 WEBSTER, OAKLAND 12, CALIF. • PLANT, WESTEND, CALIF.
SODA ASH • BORAX • SODIUM SULFATE • SALT CAKE • HYDRATED LIME

Silver nitrate, CP, cryst., bots., 2,500-oz lots..oz. .62¾ - —
1,000-oz. lots.....oz. .63½ - —
500-oz. lots.....oz. .64⅛ - —
250-oz. lots.....oz. .64⅜ - —
USP granular silver nitrate 4c per oz higher.
Proteinate mild USP bots., dms., 1,000-oz. lots..oz. 1.15 - —
strong, NF bots. dms. 1,000 oz lots..oz. 1.10 - —
Soapbark, whole, bls.....lb .38 .40
crushed bls., bbls.....lb. .45 —
powd. bbls.....lb .45 —
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 - —
l.c.l., stock points 100 lbs. 3.60 - 4.77
bulk, c.l., works 100 lbs. 1.60 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.85 - —
l.c.l., stock points 100 lbs. 3.55 - 4.72
bulk, c.l., works 100 lbs. 1.55 - —
Soda, caustic, flake, 76% dms., c.l., works, frt. equald 100 lbs. 4.70 - —
l.c.l., stock points 100 lbs. 5.80 - —
liq., 50%, sellers tanks, works, dry basis 100 lbs. 2.90 - —
rayon type, sellers, tanks, works, dry basis 100 lbs. 2.90 - 3.00
73%, sellers' tanks, works, dry basis 100 lbs. 3.00 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 3.00 - 3.10
solid, 76%, dms., c.l., works 100 lbs. 4.30 - —
l.c.l., stock points 100 lbs. 5.50 - —
Sal. conc., bgs., c.l., works 100 lbs. 2.50 - —
smaller lots, works 100 lbs. 2.80 - —
Sodium acetate anhyd bgs. c.l. works lb. 13 —
dms., c.l., works lb. .13¾ —
NF 66% gran dms. c.l., works lb. 14 —
l.c.l. works lb. .15½ —
Alginate NF white powd., dms., ton lots works lb 87 1.30
p-Aminobenzoate, dms 1,000 lb. lots or more lb. 2.35 - —
smaller lots lb. 2.45 - 2.55
p-Aminosalicylate, dms., 100 lbs or more, frt adjusted lb 2.70 —
Antimoniate, bbls c.l., dlvd E. lb. .28 —
l.c.l., dlvd E lb. .29½ —
Arsenate, 45% arsenic pentoxide, dms., c.l., works lb. .12½ —
l.c.l. works lb. .13¾ .14½
Arsenite 90% pink powder, 75% arsenious oxide, dms., works lb 12¼ —
l.c.l., works lb 13 14½
soln dms. works gal 59 67
Ascorbate, dms., 25-50 kilo lots. kilo.12.00 - —
10-kilo lots kilo.12.35 - —
5-kilo lots kilo.12.75 - —
1-kilo lots kilo.13.00 - —
bots., 500-gram lots kilo.13.50 - —
Benzoate, tech., bbls., dms., lots or more lb. .39 - —
USP bbls. dms 100-lb lots or more lb 46 —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.95 - —
l.c.l., works 100 lbs. 3.85 - —
powd., bgs., c.l., works, 100 lbs. 2.55 - —
l.c.l., works 100 lbs. 3.45 - —
Bichromate, gran., bgs., c.l., t.l., works lb. .13 - —
l.c.l., works lb. 13½ .14¾
Bifluoride bbls. c.l. works, frt equald lb. .19½ —
l.c.l., same basis lb. .1990 —
Bisulfate, bulk., c.l., works 100 lbs. 2.00 —
dms., c.l. frt equald 100 lbs 3.00 3.60
l.c.l. frt equald 100 lbs 3.50 4.10
Bisulfite, anhyd., bgs., c.l., works. 100 lbs. 5.00 - —
l.c.l., works.....100 lbs. 5.40 - —
soln. 45° bbls. c.l., works 100 lbs 1.55 - —
l.c.l. works 100 lbs 2.05 - —
Borate (see Borax)
Bromide, USP, bbls., works lb. .38 - —
Carboxymethyl cellulose (see CMC).
Carbonate, cryst., monohydrated (see Soda, sal).
monohydrated, bgs., c.l., works. 100 lbs. 3.10 - —
l.c.l., works.....100 lbs. 3.50 - —
Chlorate cryst. dms., c.l. works lb .09 - —
l.c.l., works lb. .09½ - .10½
Chloride, tech (see Salt)
USP, dms., 300 lbs. or more lb. .08 - —
Chlorite tech dms. c.l. works. lb. .58 - —
20-ton lots or more works lb .66 - —
smaller lots works lb 70 73
Chloroacetate, tech., dms., c.l., works lb. .27 - —
l.c.l. works lb 28 —
Chromate, anhyd., fiber dms., c.l., t.l., works lb. 14¾ - —
l.c.l., same basis lb. .15¼ - .16½
tetrahydrate, bgs., c.l., t.l., works lb. .1015 - —
l.c.l lb. .1065 - .1190
Citrate, anhyd., dms lb. .62 - —
NF VIII, gran., dms lb. .26½ .27½
USP, XIV gran., dms lb. .29½ .30½
Sodium citrate USP powd. prices ½c higher
Cyanate, dms., 1,000-lb. lots, works lb. .85 1.10
smaller lots, works lb. 1.00 1.25
Cyanide flake, 96-98%, dms., c.l., or 20,000-lb lots lb. .178 - —
over 1,000-lb. lots lb. .188 —
100-lb. to 1,000-lb lots lb. .198 —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .15 - —
l.c.l., works lb. .15¾ - —
anhyd., dms., c.l. works lb. .18 - —
l.c.l. works lb. 18¾ - —
Ferrocyanide, bgs., 10-ton lots lb. .13½ - —
smaller lots. lb. .14 —
Fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1390 - —
l.c.l. works lb 1430 - —
Formate bgs., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Gentisate, 100-lb. fib. dms.....lb. 5.50 - —
Gluconate, refd., dms. .....lb. .80 - .83
tech. dms .....lb. .35 - —
Glutamate, mono., dms., c.l .. lb. 1.20 - —
Hydride, dms., works .....lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate)
Hydrosulfite dms. c.l. frt. alld. lb. .24 - —
l.c.l., frt. alld. .....lb. .24½ - —
Hydroxide, NF, pellets, 100-lb. dms. 1 to 100-dm. lots lb. .18½ - .23
technical (see Soda, Caustic).
Hydrophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulfite, anhyd., tech., bgs., c.l., works..100 lbs. 7.25 - —
l.c.l., works .....100 lbs. 7.65 - —
photo grade, bgs., c.l., works. 100 lbs. 8.05 - —
l.c.l., works 100 lbs. 8.45 - —
Hexahydrate, pea cryst., bgs., c.l., works .100 lbs. 5.15 - —
l.c.l., works.....100 lbs. 5.55 - —

Sodium hexahydrate, photo grade, bgs., c.l., works ...100 lbs. 7.75 - —
l.c.l., works ...100 lbs. 8.05 - —
Pentahydrate, tech., bgs., c.l., works..100 lbs. 5.15 - —
l.c.l., works .....100 lbs. 5.55 - —
Iodide, USP, bots., dms.....lb. 2.53 - —
Lactate, edible, 50%, cbys., dms. works lb. .21½ - —
60% cbys dms works lb. .26½ - —
tech. 50% cbys. dms. works lb. .16½ - —
Lauryl sulfate, dms., c.l., dlvd lb. .19 - —
l.c.l., dlvd .....lb. .19½ - .20¾
tanks, dlvd .....lb. .18 - —
Metabisulfite (see Sodium bisulfite).
Metaborate octahydrate gran., bgs. c.l. works ton.85.00 - —
ton lots, ex whse ton.137.50 - —
smaller lots, ex whse.ton.142.50 - —
Tetrahydrate, dms., c.l., works. ton.204.00 - —
ton lots, ex whse ton.242.50 - —
smaller lots, ex whse.ton.247.50 - —
Metallic bricks, 14,000-lb. lots or more, works .....lb. .19½ - —
fused, 14,000-lb. lots, works. lb. .19 - —
tanks works lb .16 —
Metanilate, bbls., frt alld .....lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.70 - —
l.c.l., works .....100 lbs. 6.15 - 8.10
dms., c.l .....100 lbs. 6.20 - —
l.c.l. .....100 lbs. 6.65 - 8.55
Pentahydrate, bgs., c.l., works. 100 lbs. 4.45 - —
l.c.l. works .....100 lbs. 4.85 - 6.75
dms., c.l. works .....100 lbs. 4.95 - —
l.c.l., works .....100 lbs. 5.35 - 7.25
Molybdate, anhyd., dms., works, frt equald lb. .92 - .96
cryst., dms., works, frt. alld lb. .73 - .74

Sodium monohydrate (see Sodium carbonate monohydrated).
Naphthionate, bbls lb. .70 - —
Nitrate, crude, dom. bgs., c.l., works ton 47.00 - —
bulk c.l., works ton 43.50 - —
Imp 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ...ton.49.50 - —
bulk, c.l. same basis ton.46.00 - —
Nitrit., USP, bbls., c.l., works, frt. equald 100 lbs. 8.50 - —
l.c.l., same basis 100 lbs.10.50 - —
Orthosilicate, conc., dms., c.l., works 100 lbs. 6.70 - —
l.c.l, works .....100 lbs. 7.05 - 7.65
hydrated, flake, bbls., c.l., works. 100 lbs. 5.65 - —
l.c.l., works .....100 lbs. 7.60 - 7.90
Oxalate, 88%, bgs., works 100 lbs.10.85 - —
Para-aminobenzoate (see Sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Amino salicylate)
Pentachlorophenate, briquets, bgs., c.l., works, frt equald lb. .26 - —
l.c.l same basis lb. .27½ .34
pellets, bgs., c.l., same basis lb. .26 - —
l.c.l., same basis lb. .27½ .34
Pentachlorophenate, powd., bgs., dms., c.l., same basis lb. .25 - —
l.c.l. same basis lb. .26½ .33
Sodium pentachlorophenate, 20,000 lbs., min truckloads, ¼c per lb. over carlot prices.

Sodium perborate, NF, tech., bgs., c.l., works lb. .19 - —
l.c.l., works lb .21 —
Peroxide, dms., c.l. dlvd E. of Miss lb. .20 - —
l.c.l. same basis lb. .20½ 21
Phenolsulfonate USP IX, gran., dms lb 44 45
Phosphate, dibasic, anhyd., bgs., c.l., frt equald 100 lbs 7.65 —
l.c.l., works 100 lbs. 8.05 - 8.65
duohydrate, bgs., c.l., frt equald 100 lbs. 7.45 - —
l.c.l., frt. equald 100 lbs. 7.85 - 8.45
USP dried powd bgs. dms works lb 19 20½
monobasic anhyd., bgs., c.l. frt equald 100 lbs 8.70 —
l.c.l. frt equald 100 lbs 9.10 9.70
tribasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.00 - —
l.c.l frt equald 100 lbs 9.05 9.65
cryst., bgs. c.l. t.l., frt equald 100 lbs 4.40 —
l.c.l. frt equald 100 lbs 4.80 5.40
Sodium phosphates in dms. 60c higher than bgs
Prussiate, yellow (see sodium ferrocyanide).
Pyrophosphate acid, bgs. c.l., works, frt. equald 100 lb.10.85 —
l.c.l., works 100 lbs.11.60 11.85

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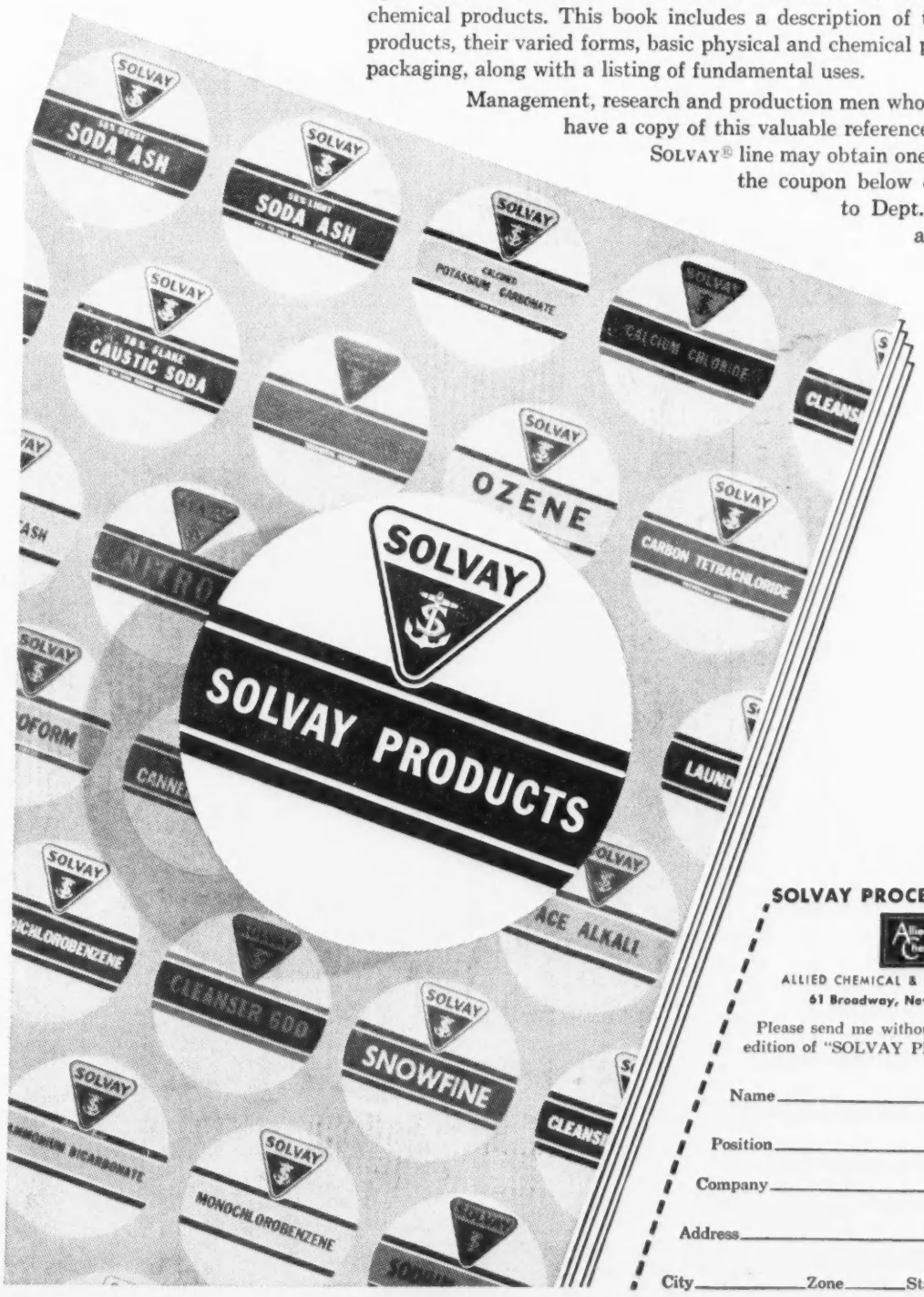

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Name_____

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Sodium pyrophosphate, ferric, dms., c.l., t.l., works lb. .36 - —
l.c.l., works lb. .37 - .39
tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.52½ —
l.c.l. frt. equald 100 lbs 7.92½ 8.52½
Salicylate, USP, dms lb. .74 - .76
Sesquicarbonate, bgs., c.l., works, 100 lbs. 2.35 - —
l.c.l., dlvd, zone 1 100 lbs. 4.10 - 4.35
zone 2 100 lbs. 4.35 - 4.60
zone 3 100 lbs. 4.75 - 4.90
zone 4 100 lbs. 5.35 - 5.60

Sales zones are: (1) Atl. States E. of Miss., R. and N. of south bound of Ky. and Va., Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn., Mo. (except St. Louis), Neb. E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.

Sesquisilicate, hydrated, bgs., c.l., works 100 lbs. 5.00 - —
l.c.l., works 100 lbs. 5.35 - —
dms., c.l., works 100 lbs. 5.50 - —
l.c.l., works 100 lbs. 5.85 - —
Silicate, liq., 40° Be. 1:3.2, turbid, dms., c.l., works 100 lbs. 1.45 - —
l.c.l., works 100 lbs. 1.80 - 2.30
tanks, works 100 lbs. 1.10 - —
47° Be. turbid, 1:2.9, dms., c.l., works 100 lbs. 2.10 - —
l.c.l., works 100 lbs. 2.70 - 2.95
tanks, works 100 lbs. 1.75 - —
52° Be. turbid 1:2.4, dms., c.l., works 100 lbs. 2.45 - —
l.c.l., works 100 lbs. 2.80 - 3.30
tanks, works 100 lbs. 2.10 - —
solid, 1:3.2, bgs. works con. 62.50 - —
Silicofluoride, bgs., c.l., works lb. .075 - —
l.c.l. works lb. .079 - —
Sodium silicofluoride in dms., 0.4c per lb higher
Stannate, dms. works, frt. alld. E lb. .625 - .679
Sulfa drugs (see Sulfa name)
Sulfanilate, bbls. works lb .22 - —
Sulfate, NF VII, dried, powd., dms lb. 22½ - —
tech. anhyd. bgs. c.l., dlvd. E ton 52.00 - —
detergent, rayon grade, bgs., c.l., works ton 34.00 - —
bulk, c.l., works ton 31.00 - —
USP, cryst., fib. dms lb .17½ .18
gran. fib. dms lb .17½ .18
Sulfhydrate, flake, 70-72%, dms., c.l., works lb. .06¾ - —
l.c.l., works lb. .07¾ - —
liq. 40-44% tanks, works, 100% basis ton 120.00 - —
Sulfide, flake, dms., c.l., works, E., frt. equald lb. .05½ - —
l.c.l., same basis lb. .06½ - —
fused, bbls., c.l. works E., frt. equald lb. .05 - —
l.c.l., same basis lb. .06 - —
Sulfite, anhyd., bgs., c.l. 100 lbs. 3.25 - —
l.c.l., same basis 100 lbs. 3.75 - —
Sulfocyanide, CP (see Sodium thiocyanate).
Tetraborate (see Borax)
Tetrasulfide, liq., 40%, dms., c.l., c.l., works lb. .04 - —
l.c.l., works lb. .05 - —
Thiocyanate, CP, dms lb. .55 - .65
tech., anhyd., dms., 1 ton lots or more, works lb. .317 - —
less than ton lots, works lb. .337 - —
Thiosulfate, NF, cryst., bbls lb. .13½ - —
tech. (see Sodium hyposulphite)
Titanate, etns., c.l. works lb. .10½ - —
5-ton lots, works lb. .10¾ - —
1-ton or less, works lb. .11 - —
Toluene sulfonate, dms., c.l. or t.l lb. .38 - —
l.c.l. lb. .42 - —
Trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld. E lb. .37½ - —
l.c.l., frt. adjusted, E lb. .39½ - —
50-lb. dms., c.l. frt. alld. E. lb. .38 - —
l.c.l., frt. adjusted E lb. .40 - —
10-lb. cns., c.l., frt. alld E lb. .44 - —
l.c.l. frt. adjusted E lb .46 - —
Prices on Sodium trichloroacetate W. of the Rockies are 1¾c per pound higher.
Tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 7.87½ —
l.c.l., same basis 100 lbs. 8.27½ 8.87½
Trisilicate, powd., 1:3.2, bgs., c.l., works 100 lbs. 8.65 - —
l.c.l. works 100 lbs 9.40 - 9.80
dms., c.l., works 100 lbs. 9.05 - —
l.c.l. works 100 lbs 9.80 - 10.20
Tungstate, tech., kgs. dlvd. E lb 2.15 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethyl cellulose (see CMC)
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. 21 - —
l.c.l., same basis lb. 21½ - —
Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works lb. .28 - —
smaller lots, same basis lb. .30 - —
Solvent naphtha, coaltar high flash, tanks, frt. equald gal. .31 - .32
petroleum (see Petroleum solvent, partial aromatic)
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .32 - —
10,000 to 20,000-lb. lots, works. lb. .34 - —
smaller lots, works lb. .37 - .39
Tristearate, fib. dms., 20,000-lb. lots, works lb. .33 - —
10,000 to 20,000-lb. lots, works. lb. .35 - —
smaller lots, works lb. .38 - .40
Sorbitol, cryst., resin grade, pellets, dms., c.l., works lb. .23 - —
1 to 5-ton lots, works lb. .25 - .26
powd., dms., 1 to 5-ton lots, works lb. .38 - .39
soln., comi. aqueous, dms., c.l., works lb. 24¼ - —
ton lots, works lb. .25 - —
smaller lots, works lb. 25¼ - —
tanks, works lb 23¼ - —
reg. 70% aqueous, dms., c.l., works lb. .16 - —
ton lots, works lb. .16¾ - —
smaller lots, works lb. .17 - —
tanks, works lb 15 - —
ton 45.00 - —
Soybean meal, 44% bulk, Decatur. ton 47.00 - 47.50
protein, chemically isolated, bgs., c.l., works lb. .23 - —
mechanically refd., bgs., l.c.l., works lb. .066 - —
Sparteine sulfate, cns oz. .80 - .90
Spearmint leaves, dom. bls lb 75 - —

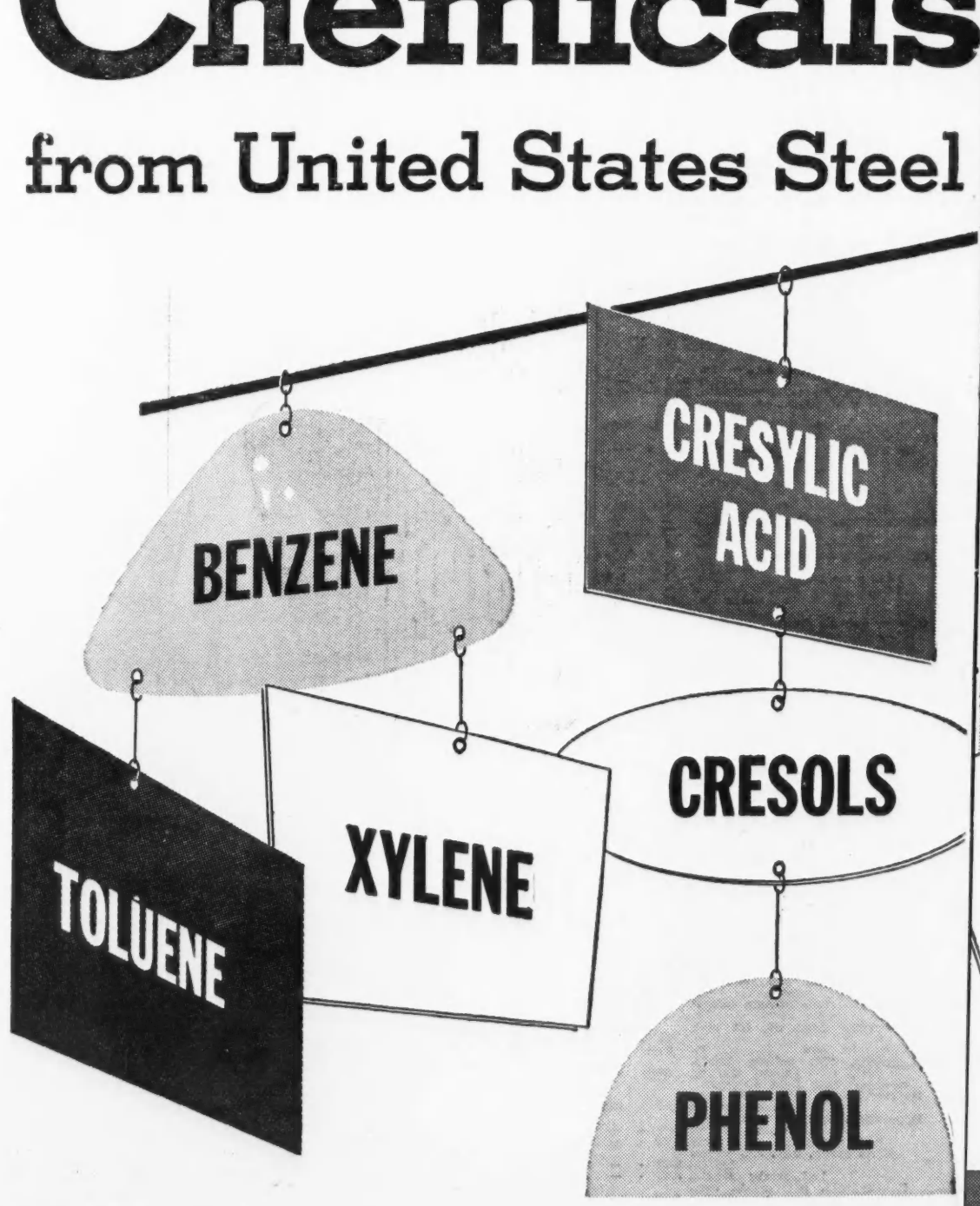
Spruce extract, liq., reg. tanks, works lb. .01¾ —
powd., super, bgs., c.l., works lb. .05¼ —
l.c.l., works lb. .05½ —
Squill, white, bls lb. .16 - .18
powd., bbls. bxs lb. .17 - .20
St. John's bread, edible, bls lb. .13 - .15
Stannic chloride, anhyd., dms., works lb. .842 - .852
Oxide, dms., dlvd. E lb. 1.15½ - 1.16½
Stannous chloride, anhyd., dms., works lb. .982 - 1.477
hydrous, cryst., dms., works. lb. .85½ - .86½
Sulfate, dms., works lb. 1.034 - 1.054
Starch, corn, pearl, paper bgs., c.l., 100 lbs 7.27 - —
l.c.l. 100 lbs 7.42 - —
powd., paper bgs., c.l. 100 lbs. 7.39 - —
l.c.l 100 lbs. 7.44 - —
Prices for corn starch in cotton bags, 15c per 100 lbs higher
Potato, dom, Idaho bgs., c.l., works lb. .06 - —
Maine, bgs., c.l., works lb. .06¼ - —
ex whse, N. Y. lb. .08¼ - .09¼
Rice, bgs., l.c.l. lb 15½ 16
Wheat, bgs lb. .08½ .09
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Stavesacre seed, bgs lb. .60 .61
Stearine oleo (see Oleostearine)
Stramonium leaves, bgs lb .18 .20
Soybean meal, 44% bulk, Decatur.
Streptomycin hydrochloride, bulk, gram .07 - .0750

Strontium bromide, NF, dms., 150-lb. fib. dms. lb. .88 - —
Carbonate, pure, dms., 5-ton lots or more, works lb. .35 - —
1-ton lots, works lb. .37 - —
tech., dms., works lb. .19 - —
Chromate, bbls., works lb. .46 - —
Iodide, pars, 25-lb. lots lb. 3.42 - —
Nitrate, bbls., c.l., works 100 lbs. 11.00 - —
l.c.l., works 100 lbs. 12.00 - —
Salicylate, NF, dms lb. 1.78 - —
Sulfate, air floated, 90%, 325 mesh, bgs., works ton 56.70 -66.15
Strophanthin, K., bots. oz. 25.00 -25.50
G. (see Ouabain, USP).
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75
Styrax, USP cs lb .78 - .80
Styrene monomer, polymer grade, 99½% dms. c.l. frt. alld. lb. .22½ - —
l.c.l. same basis lb. .23½ - —
tanks, same basis lb. .21½ - —
synthetic rubber grade, 99% dms. c.l. frt. alld lb. .18 - —
l.c.l., same basis lb. .19½ - —
tanks, same basis lb. .16 - —
Styrolyl acetate, bots lb. 1.45 1.70
Sucrose, refd., white, bgs., refy., E lb. .0885 - —
Octa-acetate, denaturing grade, 100-200-lbs., bgs., l.c.l., works lb. .76 - —
Sugar (see Sucrose).
Sulfabenzamide, dms lb 4.00 4.50
Sodium, dms lb 4.10 4.60
Sulfacetamide, fib. dms lb 4.00 4.20
USP, same basis lb. 5.00 - 5.20
Sodium, fib. dms lb 5.00 - 5.20
USP, same basis lb. 5.20 - 5.40
Sulfadiazine, USP, microcrystals, dms lb. 10.60 -11.10
powd., dms lb. 10.25 -10.75

Sulfadiazine-sodium, USP, dms lb. 11.25 -11.75
microcrystals, dms. lb. 11.60 -12.10
Sulfaguanidine, USP dms lb 2.50 —
Sulfamerazine, USP, microcrystals. lb. 10.65 -11.15
Sulfamerazine-sodium, USP, dms., lb. 11.25 -11.75
Sulfamethazine, microcrystals, dms., lb 8.90 - 9.40
powd., dms lb 8.50 - 9.00
dms lb. 1.40 - 1.60
microcrystals, dms. lb 1.70 - 1.90
powd., dms. lb. 1.30 - 1.50
Quinoxaline, veterinary, dms lb 6.40 - 6.75
Sulfapyridine, NF powd. bots. tins. lb. 7.00 7.50
Sulfapyridine-sodium, monohydrate, dms lb. 7.50 8.00
Sulfathiazole, NF, microcrystals,
Sulfanilamide, USP 30-80 mesh, dms lb 2.85 3.00
powd. dms lb 2.50 2.65
Sulfathiazole-sodium, NF, dms lb. 2.75 - 2.90
Sulfur, coml., flour, bgs., mines, 100 lbs 2.55 - —
bbls., mines 100 lbs 3.30 - —
lump, bgs., mines 100 lbs 2.45 - —
bbls., mines 100 lbs 2.90 - —
crude, bulk, c.l., mines, contract, long-ton 26.50 - —
export, f.o.b vessels, Gulf ports long-ton 28.00 - —
domestic and Canada, f.o.b vessel Gulf port long-ton 28.00 - —
refd., flowers, USP, bgs., mines 100 lbs. 4.25 - —
bbls., mines 100 lbs. 5.50 - —
flour, light, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.75 - —
lump, bgs., mines 100 lbs. 3.55 - —
rolls, bgs., mines 100 lbs. 4.10 - —
bbls., mines 100 lbs. 4.65 - —
salt block, bbls., mines 100 lbs. 3.75 - —
virgin block, bbls., mines 100 lbs. 3.70 - —

Chemicals

from United States Steel



Sulfur, rubbermakers, coml., reg. bgs., mines ..100 lbs. 2.65 - —
bbls., mines ..... 100 lbs. 3.80 - —
98-100% passing through 325 mesh, bgs., mines. 100 lbs. 2.75 - —
bbls., mines ..... 100 lbs. 3.90 - —
refd., bgs., mines ..... 100 lbs. 3.50 - —
bbls., mines ..... 100 lbs. 4.55 - —
treated 2.5% mineral oil, bgs., mines 100 lbs. 2.95 - —
bbls, mines ..... 100 lbs. 4.10 - —
Dichloride, dms., c.l., works, frt. equald. lb. .04 - —
l.c.l. same basis ..... lb. .04¾- —
tanks, same basis ..... lb. .03¾- —
Dioxide liq., coml., cyls, works, frt. equald lb. .10 - .12
multi unit cars, works lb. .0535- —
tanks, works lb. .045 —
refrigeration 150-lb cyls., dlvd. lb. .30 —
Monochloride, 55-gal. dms., c.l., frt. equald lb. .04 - —
c.l. same basis lb. .04¾- —
tanks, same basis lb. .03¾- —
Sumac leaves, 28% tannin, bgs., ex-dock ..ton.130.00 - —
ground, bgs., ex-dock ....ton.130.00 - —
Superphosphate, run-of-pile, under 22% a.p.a pulv., bulk, c.l., Balto. unit-ton. .88 .91
Carteret N J unit-ton. .88 .91
triple 48% or more a.p.a. pulv., bulk c.l. East Tampa, Fla. unit-ton .92 - —

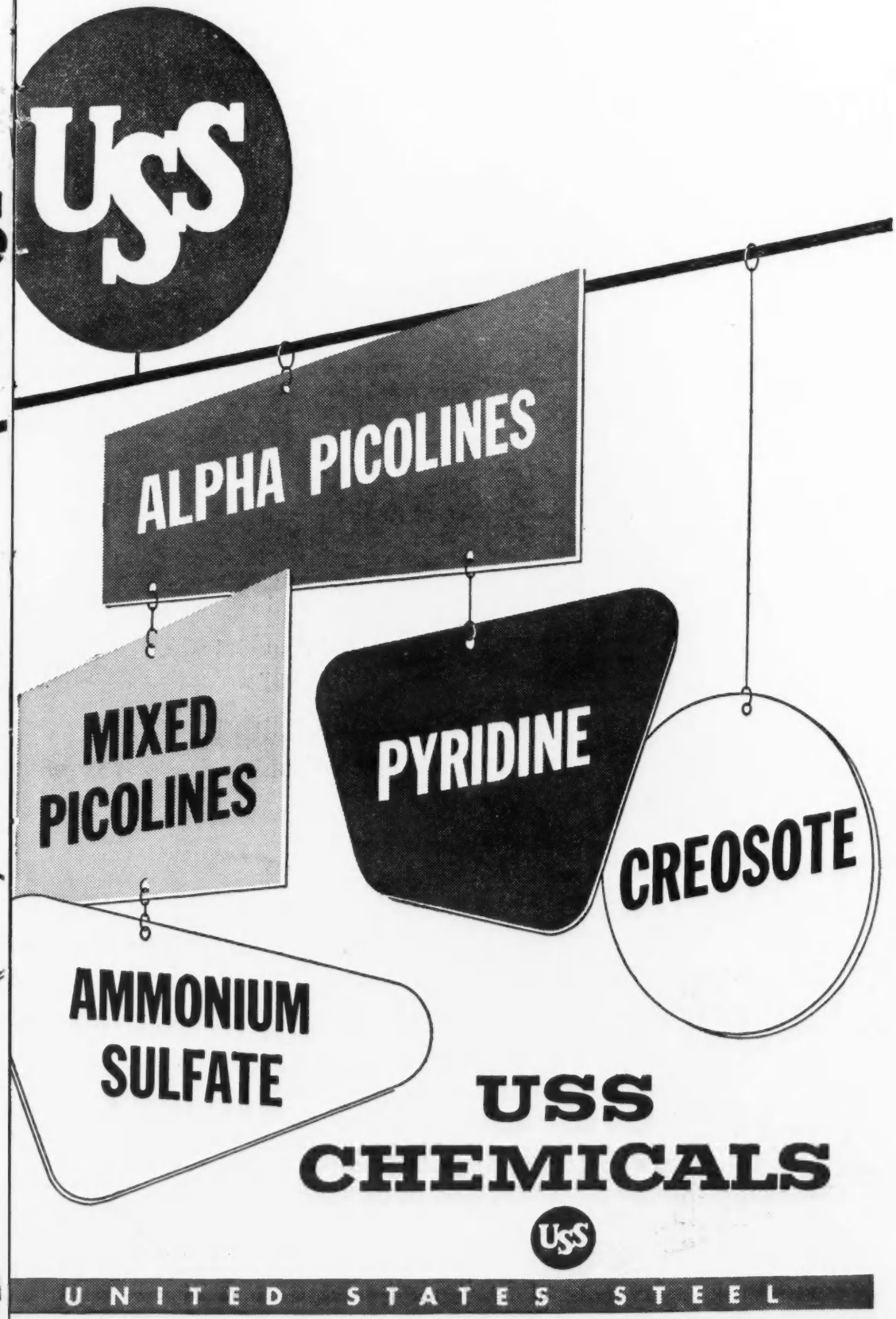
T

2,4,5-T dms. c.l. works frt. equald. lb 1.18 - —
l.c.l. same basis ..... lb 1.25 - —
isopropyl ester, dms., c.l., works, frt. equald lb 1.24 - —
l.c.l., works ..... lb 1.29 - —

Talc, dom., ord., Calif., grd., bgs., c.l., works ton.33.00 -39.50
Vermont off color grd., bgs., c.l., works ton.19.40 - —
l.c.l., works ..... ton.37.00 - —
fibrous, New York, grd., bgs., c.l., works ton.28.00 - —
l.c.l., works ..... ton.31.00 -36.00
99.5%, 325 mesh, bgs., c.l., works ton.31.00 - —
l.c.l., works ..... ton.34.00 - —
99.95% micronized, bgs., works ton.38.00 - —
tmp., Canadian grd bgs., c.l., mines ton 20.00 -35.00
Tallow, edible, tanks, dlvd ... lb. .13½- .13¾
inedible, fancy, bleachable, tanks, dlvd lb. .08¼- —
guaranteed, dms., f.a.s. lb. .09⅞- .10
No. 1, tanks, dlvd ..... lb. .07¼- —
prime, tanks, dlvd ..... lb. .08 - .08⅛
special tanks, dlvd ..... lb. .07⅝- —
sulfonated, 25%, bbls., l.c.l lb. .08¾ .09
50%, bbls., l.c.l. ..... lb. .09¾ .10¼
Tankage, animal, feeding, 9-11% ammonia, bulk unit-ton. 4.75 - —
Chicago, bulk... unit-ton. 5.25 - —
Tapioca flour, Brazilian bgs., ex whse lb. .10½- .11
Tar acid oil, 15-18%, dms., c.l., frt equald gal. .47 .49
l.c.l., same basis ... gal. .50 .51
tanks, same basis ... gal. .39 —
25-28%, dms., c.l., same basis. gal. .54 - .56
l.c.l., same basis ... gal. .57 - .58
tanks, same basis ... gal. .46 - —
50-53%, dms., c.l., same basis. gal. .70 .72½
l.c.l., same basis ... gal. .73½ .74½
tanks, same basis ... gal. .62½- —
Coal (see Coaltar).

Tartar, emetic (see Antimony-potassium tartarate)
Terpine glycol ether, dms., c.l., works lb. .23½ —
l.c.l. works lb. .25½- —
tanks, works lb 22 —
Hydrate, NF, cryst., powd., 100-lb. fib. dms lb. .70 - —
Terpinol, dms., l.c.l., dlvd E lb. .23¾ —
extra, dms ..... lb .41 .60
prime, dms ..... lb .30 45
Terpinyl acetate, extra cns. dms. lb .60 75
prime, dms ..... lb .55 70
Propionate, dms lb 1.75 3.00
Terra alba (see Gypsum)
Testosterone USP 100-gm. lots, bots gram. 70 —
Propionate USP 100-gm lots, bots gram. 68 - —
Tetrachloroethane, dms works lb. 14½- —
Tetrasodium pyrophosphate (see Sodium pyrophosphate)
Tetrachloroethylene tech (see Perchloroethylene)
USP 55 gal dms. works lb. .20½ .21½
smaller dms. works lb. .23½ .25
Tetraethyl orthosilicate dms., c.l., dlvd E lb. 61½ —
l.c.l. dlvd. E lb. 62½ —
Pyrophosphate 40% cns., dms., frt equald lb. 75 —
Tetrachloroethylenepentamine dms c.l., dlvd E lb. 49 - —
l.c.l. dlvd E lb 50 - —
tanks, dlvd. E ..... lb 47 —

Tetrahydrofuran dms. c.l., or t.l., works lb. 36½- —
l.c.l. or t.l.l. works ... lb. .37 - —
tanks works ..... lb. .35 - —
Tetrapotassium phosphate (see Potassium phosphate).
Thallium metal dlvd ... lb 12.50 15.00
Sulfate 99% bots dlvd ... lb 8.00 13.00
Theobromine, NF, fib. dms. ... lb. 4.00 - —
And sodium acetate USP fib. dms lb. 4.45 - —
Sodio-Salicylate, NF, fib. dms lb. 3.60 - —
Theophylline anyhd or USP 100-lb dms lb 3.85 - —
Thiamine hydrochloride USP regular fib dms kilo 60.00 - —
ampule grade, fib. dms kilo 62.00 - —
Mononitrate USP fib dms kilo 62.00 - —
Thiocarbanilide dms. ton lots .lb .72 - —
less tons lots lb .74 - —
Thiodiphenylamine (see Phenothiazine)
Thiourea, tech., bgs., t.l., frt. alld. lb .33 - —
l.c.l., frt. alld ... lb .35 - —
Thorium nitrate, purif. fib dms., 100-lb lots or more. works lb 3.50 —
dl-Threonine bots. 1-kilo lots kilo 450.00 500.00
Thymol, fib. dms ... lb 2.50 2.75
Iodide, NF, dms ... lb 7.50 —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhydrous)
crystals (see Stannous chloride hydrous)
Oxide (see Stannic oxide)
Metal (S.raits) ... lb. 1.10½- —
Sulfate (see Stannous sulfate)
Tetrachloride anhyd. (see Stannic chloride, anhydrous)
Titanium dioxide anatase, chalk-resistant, bgs. c.l., dlvd lb .24½ —
l.c.l., dlvd ... lb .25½ —
ceramic, bgs. c.l., dlvd ... lb .22½ —
l.c.l., dlvd. ... lb .23½ —
rez., bgs., c.l., dlvd ... lb .22½ —
l.c.l., dlvd ... lb. .20½- —
metallurgical, nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla ton 120.00 —
Niagara Falls, N. Y., c.l., ton 137.50 —
5-ton lots ton 142.50 —
ton lots ton 147.50 —
rutile nonchalking, bgs., c.l., dlvd E lb. 26½- —
l.c.l., dlvd E. lb 27½ —
Milled titanium dioxide $7.50 per ton higher
Hydride, cns., works lb 7.95 9.00
Pigment, calcium-rutile base, reg., bgs., c.l., dlvd ... lb. .09¼- —
c.l., works ... lb .09¾- —
high-tinting, dms., c.l. lb .09 - —
l.c.l. ... lb .09½- —
Tetrachloride tech., dms., c.l., works lb. .40¾- —
l.c.l. works ... lb .43¾- —
tanks, works ... lb .39¾- —
dl-a-Tocopherol, bots ... kilo.134.20 - —
Acetate ... kilo.122.00 - —
25% dry ... kilo.31.00 - —
Acid succinate ... kilo.165.00 - —
o-Tolidine, base, paste, kgs., 100% basis lb 1.35 - —
dry, kgs., 100% basis lb 1.40 - —
Hydrochloride paste, kgs., 100% basis lb. 1.35 - —
Tolu balsam, cns ... lb. 4.85 - —
Toluene (see Toluol).
p-Toluenesulfonamide powd., dms., works lb. 70 - —
m-Toluidine dms. c.l., works, frt. alld lb. 79 - —
l.c.l. same basis ... lb. 80 - —
tanks same basis ... lb. 78 - —
o-Toluidine dms. c.l., works, frt. alld lb 23 - —
l.c.l. same basis ... lb 24 - —
tanks, same basis ... lb 22 - —
o-Toluidine, flake, dms., frt alld lb. 64 - —
solid dms. frt alld lb .60 - .61
Toluol, coaltar, indust or nitration tanks, works:—
Bethlehem, Pa ... gal. .32 - —
Birmingham dist ... gal. .32 - —
Chicago, dist ... gal. .32 - —
Cleveland dist ... gal. .32 - —
Geneva, Utah ... gal. .26 - —
Johnstown, Pa ... gal. .32 - —
Lackawanna, N. Y ... gal. .32 - —
Lone Star, Tex ... gal. .33 - —
Lorain, Ohio ... gal. .32 - —
Middletown, Ohio ... gal. .33½- —
Minnequa, Colo ... gal. .32 - —
Philadelphia dist ... gal. .32 - —
Pittsburgh dist ... gal. .32 - —
Sparrows Point, Md ... gal. .32 - —
Terre Haute Ind ... gal. .35 - —
Youngstown, Ohio ... gal .32 - —
Petroleum, indust., 2°, tanks, works:—Albany, N. Y ... gal. .35 - —
Bayonne, N. J ... gal. .34 - —
Baytown, Tex. ... gal. .33 - —
Chicago, Ill. ... gal. .33 - —
Detroit, Mich ... gal. .35 - —
Houston, Tex ... gal. .33 - —
Philadelphia, Pa. ... gal. .34 - —
Providence, R. I ... gal .35 - —
Wood River, Ill ... gal. .34 - —
2,4-Tolylenediamine, cryst., 6b. dms., c.l. frt. alld lb .97 —
l.c.l., frt. alld ... lb 1.00 —
powd. 6b dms. same basis lb 1.00 —
Tonka beans, Angostura, cks. ... lb. No prices.
Brazilian, Surinam, cs ... lb. 1.35 —
Totaquine 100-oz lots, cns ... oz. .42 —
Toxaphene, dms. c.l., t.l., works lb. .21 - —
l.c.l., t.l.l., works ... lb. .27 - —
Triacetin, dms., c.l., dlvd E of Rockies lb. .39 —
l.c.l., same basis ... lb .40 - —
tanks, same basis ... lb. .37 - —
Tributyl citrate tech., non-ref. dms., c.l. frt. alld E of Denver lb. .42½- —
l.c.l. frt alld E of Denver lb. .43½- —
tanks frt alld E of Denver lb 40 —
Phosphate, dms., c.l., works lb. .52½- —
l.c.l., same basis ... lb. .53½- —
tanks same basis ... lb 50 —
Tributylamine, dms., c.l., works lb. .67½- —
l.c.l., same basis ... lb. .68½- —
tanks, same basis ... lb 65 —
Trichlorobenzene, dms. c.l., frt. alld E lb .14½ —
l.c.l. frt alld E ... lb .15½- —
tanks, frt alld E ... lb 13 - —
Trichlorobenzene prices in the West 1¾c. higher.
Trichloroethylene dms., c.l. or t.l., works, frt. equald lb. .12½- —
l.c.l., dlvd. E. ... lb. .14½- —
tanks, works, frt. equald ... lb. .11¼- —
1,1,1-Trichloroethane, dms., c.l., works lb. .13½- —
l.c.l., works ... lb. .14¼- 16¼
tanks, works ... lb. .11½ 12½



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NAME OF WAX	MELTING POINT ASTM D-127-30	PENETRATION 100G/77°/ 5 SEC.	COLOR N P A	ACID NUMBER	SAPONIFICATION VALUE	TYPE
CARDIS ONE (U.S. Pat. No. 2471102)	195-200	1-2	4-5	12-16	55-65	EMULSIFIABLE PETROLEUM WAX
CARDIS* 314	184-189	4-6	4-5	13-16	45-55	EMULSIFIABLE PETROLEUM WAX
CARDIS* 319	180-185	5-7	4-6	18-20	65-70	EMULSIFIABLE PETROLEUM WAX
CARDIS* 320	180-185	5-7	4-5	28-30	75-80	EMULSIFIABLE PETROLEUM WAX
CARDIS* 262	195-200	3-5	BROWN	14-17	40-45	SPECIALLY PROCESSED PETROLEUM WAX
FORTEX*	190-200	3-5	2½-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND PLASTIC
MEKON* B-20 A-20 Y-20	190-195 190-195 190-195	3-5 3-5 3-5	BROWN-BLACK AMBER-6 MAX. YELLOW-3-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
POLYMEKON**	200-MIN.	0-3	YELLOW	0.0	0.0	SPECIALLY PROCESSED PETROLEUM WAX
WARCO* WAX 150-A	145-155 145-155	15-20 15-20	YELLOW 1-2 BROWN	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
WARCO* WAX 170-A	170-175	10-15	YELLOW 1-2	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
WARCO* WAX 180	180-185 180-185	4-7 4-7	WHITE BROWN	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
WARCOSINE*	150-155	15-20	WHITE	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
PARAFFIN	136-138 ASTM	FULLY REFINED				CRYSTALLINE
CANE WAX 700	169-174	1.0-1.5	BROWN	25-30	70-90	VEGETABLE WAX
CANE WAX 500	171-176	3 MAX.	LIGHT BROWN	25-35	55-70	VEGETABLE WAX
CANE WAX 517-711	170-175	2 MAX.	BLACK	—	—	VEGETABLE WAX

*®
**Patent Applied For.

A SUBSIDIARY OF Sun CHEMICAL CORPORATION

Warwick Wax Co., Inc.

10th Street and 44th Avenue, Long Island City 1, N. Y.
STillwell 6-1100
Midwest Office: 6556 S. Melvina Avenue, Chicago 38, Illinois
LUdlow 5-5700

DIVISIONS OF SUN CHEMICAL CORPORATION

HORN (paints, maintenance and construction materials, industrial coatings) • **WARWICK** (textile and Industrial chemicals) • **WARWICK WAX** (refiners of specialty waxes) • **RUTHERFORD** (lithographic equipment) • **SUN SUPPLY** (lithographic supplies) • **GENERAL PRINTING INK** (Sigmund Ullman • Fuchs & Lang • Eagle • American • Kelly • Chemical Color & Supply Inks) • **MORRILL** (news inks) • **ELECTRO-TECHNICAL PRODUCTS** (coatings and plastics) • **PIGMENTS DIVISION** (pigments for paints, plastics, printing inks of all kinds) • **OVERSEAS DIVISION** (export) • **A. C. HORN COMPANY LIMITED** (Canada) • **FUCHS & LANG de Mexico, S. A. de C. V.** • **GENERAL PRINTING INK CORPORATION OF CANADA, LIMITED**

V 170 23 DEC 56 XUM

Tricholine citrate 65% soln., ret chvs works frt adjusted lb 1.40 - 1.45
Tricresyl phosphate coaltar, dms., c.l., dlvd lb .37 - —
l.c.l. dlvd lb .38 - —
tanks, dlvd lb .34½ - —
petroleum dms., c.l., dlvd lb .36½ - —
l.c.l. dlvd lb .37½ - —
tanks dlvd lb .34½ - —
Triethanolamine dms., c.l., dlvd E lb .24½ - —
l.c.l., same basis lb .25½ - —
tanks, same basis lb .22 - —
Triethylamine dms., c.l., wor'ks, dlvd E lb .49 - —
tanks, same basis lb .46½ - —
Triethyl citrate refd. tech., non ref dms. c.l. frt. alld E. of Denver lb. .45¾ —
l.c.l. frt alld E of Denver, lb .46¾ —
tanks frt alld E of Denver, lb .43¾ —
Phosphate, dms., c.l. dlvd .. .40½ - —
l.c.l. dlvd lb. .41½ - —
tanks same basis lb .38 —
Triethylene glycol dms. c.l. dlvd, E lb. .21 - —
l.c.l., same basis lb. .22 - —
Triethylenetetramine, dms., c.l., dlvd. E lb. .51½ - —
l.c.l., dlvd. E. lb. .52½ - —
tanks, dlvd. E. lb. .49 - —

Tri-isopropanolamine dms. c.l., dlvd E lb. .23¼ - —
l.c.l., dlvd E lb .24¼ - —
tanks dlvd E lb .20¾ - —
Trimethylamine 25-40% soln. dms., c.l., works frt equald., 100% basis lb. .42 - —
l.c.l. works frt equald. 100% basis lb. .42½ - —
tanks works frt equald. 100% basis lb .33 —
Trioxane pure dms c.l. t.l. dlvd. E lb. .50 —
l.c.l., dlvd E lb. .51½ - —
Tripentaerythritol bgs. l.c.l. works. lb .35 -
Triphenyl phosphate bbls. c.l. frt. equald lb .40 —
l.c.l., frt. equald lb. .41 - —
Triphenylguanidine bbls., works lb .90 —
tanks, same basis lb. .18½ - —
Tripropylene glycol dms., c.l., frt. alld E lb. .20½ - —
l.c.l., frt. alld E lb .21½ - —
Tripopylene glycol prices 1c. per lb. higher in West.
Phosphate (see Sodium phosphate tribasic).
Tyrothricin, USP bots gram. .75 .85
di-Tryptophane, 6b ctns., works. kilo.165.00 —

Tungsten metal powd., 2-5 microns, dms., works lb. 4.20 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).

U

Unicorn root, false (see Helonias root).
True (see Aletris root)
Urea, 46% N, indust., bgs., c.l., t.l. dlvd E ton 120.00 - —
l.c.l. dlvd E, ex whse ton 140.00 - —
45% N agricultural bgs., c.l., (30 tons) dlvd E ton 105.00 - —
Urea-ammonia liquor A and B grades N basis, tankcars, Belle W Va ton 126.00 - —
C grade, tankcars, same basis, ton.124.50 - —
37 grade, tankcars, same basis, ton.153.00 - —
Urethane, USP dms lb 1.45 - —
Uva ursi leaves, bls lb 12 - .14

V

Valerian root, Belgian, bgs lb. .35 - —
Indian, bgs. lb .27 - —
dl Valine, dms., works lb.21.00 -27.50
Valonia beards, 40-42% tannin, bgs., ex dock ton.86.00 - —
cups, 28-30% tannin bgs. ex dock ton.64.00 - —
extract, powd., 63% tannin, bgs., exdock, duty extra lb. .09¾ - —
Vanadium pentoxide tech., dms., works lb. 1.28 1.33
Vanilla beans, Bourbon, tins lb. 7.50 - —
Mexican, cuts, tins lb. 7.50 - —
whole, tins lb. 8.00 - —
Tahiti, cs lb 7.00 —
Vanillin ex eugenol, tins 25-lb lots, lb 6.50 6.75
smaller lots lb 6.90 7.25
ex lignin, dms., 100-lb lots lb 2.75 —
smaller lots lb 2.80 2.85
Vinyl acetate monomer, 55-gal dms., c.l., dlvd E lb. .19 —
l.c.l., dlvd E. lb. .20 - —
tankcars, dlvd E lb. .16½ - —
tanktrucks less than 4,000 gal., dlvd E lb. .17½ —
n-Butyl ether, tech. dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Chloride monomer, tanks, works lb 11 .12
Ether, USP, anesthesia, bots., 50 c.c., hospitals bot. 1.12 - —
75 c.c bot 1.56 - —
tech. dms., c.l., works lb .26 - —
l.c.l. works lb. .28 - —
tanks, works lb. .25 - —
Isobutyl ether, tech., dms., c.l., works lb .28 - —
c.l. works lb .30 - —
tanks works lb .27 - —
Methyl ether, cyls., works lb. .23 - —
tanks works lb .20 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period full refund is made

Propionate monomer, dms. c.l., dlvd lb. .49 - —
l.c.l. same basis lb .50 - —
tanks, same basis lb .47 —
Trichloride (see Frichloroethane).
2-Vinylpyridine 10 dms to tanks, works lb 1.36 - —
1 to 9 dms., works dlvd lb. 1.50 - —
tanks, works lb 1.33 - —
Vinyltoluene, dms., c.l., frt. alld lb. .18½ - —
l.c.l., frt. alld. lb. .19½ - —
tanks, frt alld lb. .16 —
Viosterol in nat. vegetable oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units. .02½ - .04¾
Vitamin A acetate, syn. crystalline beads 500,000 A units per gram gram .07¼ —
dry 500,000 units per gram, kilo lots kilo.67.50 - —
325,000 units per gram, same basis kilo.43.88 - —
250,000 units per gram, same basis kilo.33.75 —

Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies

liq., in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
Palmitate liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. .10 - —
in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —

B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin)
B_{12} complex natural (see Rice bran concentrate and Yeast)
B_{12} crystalline, 1-gram or 5-gram vials gram.245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gram.185.00 - —
C (see Acid, ascorbic)
D (see Oils, codliver and fish-liver Calciferol, and Viosterol)
D_2, dry 850,000 units per gram, kilo lots kilo.42.50 - —
less than kilo lots kilo.45.00 - —
E (see a-Tocopherol and Oil, wheat germ)
G (see Riboflavin)
H (see Biotin)
K Active (see Menadione).
K_1, 25 gram bots gram. 4.50 - —
Violet methyl toner (see Blue methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root, bark, bls. lb. 2.25 - —
Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb. 1.95 - —
25-49-lb. lots, N. Y. or Chicago, lb. 2.05 - —
5-24-lb. lots, cns., N. Y. or Chicago lb 2.15 - —
Wattle bark, fair average, African, bales, ex dock ton.95.00 -96.00
merchantable bales, ex dock.ton.91.00 -92.00
Extract, liq., 35% tannin, bbls., lb. .08¼ .08⅝
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .09⅜ - —
S. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
Wax, amorph. (see Wax micro crystalline).
Bayberry, bgs lb. .45 - .47
Bees, crude, African, bgs lb. .71 Nom.
Brazilian, bgs lb. .74 Nom.
Central American, bgs lb. .68 Nom.
Chilean, bgs lb. .74 Nom.
refd., USP, bleached, white bricks, 100-lb. ctns lb. .80 - .82
slabs, 100-lb. ctns lb. .79 - .81
yellow, bricks, 100-lbs. ctns. lb. .71 - .73
slabs, 100-lb. ctns lb. .70 - .72
Candelilla, crude, bgs lb. .70 - .71
refd., bgs lb. .73 - .74

Powdered candelilla: 20 to 100 mesh, 7c. higher.

Carnauba, chalky, bgs., ton lots, lots lb. .65 - .66
North country No. 2, crude, bgs., ton lots lb. .74 Nom.
No. 3, Ceara, crude, bgs., ton lots lb. .67 - .68
refd., pure, bgs., ton lots lb. .75 - .76
tech., bgs., ton lots lb. .69 - .71
Parnahyba, crude, bgs., ton lots lb. .68 - .69
refd., pure, bgs., ton lots lb. .76 - .78
yellow No. 1, Ceara, bgs., ton lots lb. 1.43 - 1.45
Parnahyba, bgs., ton lots lb. 1.46 - 1.48

Powdered carnauba wax price differentials same as powdered candelilla.

Japan, cs lb. .48 - .50
Microcrystalline, coating grades, tankcars, works lb. .10 - .11
laminating grades, tankcars, works lb. .11 - .12
Montan, dom., refd., bgs lb. .29 - .30
imp., crude, Bohemian, bgs lb. .26 - .28
German, bgs lb. .35 Nom.
Ouricury, refd., pure, bgs lb. .89 - .91
tech., bgs lb. .85 Nom.
Paraffin (see P).

WAX problem?

here are 2 safe answers to any wax problem

1 The BARECO WAX COMPANY offers a complete line of microcrystalline waxes. The many products of Bareco-Petrolite refineries cover such a wide range of specifications and physical characteristics that there probably is a Bareco wax which will answer your need.* *If there isn't . . .*

2 The cumulative knowledge of the Bareco-Petrolite research groups will develop a special wax to provide a custom-built answer to your individual problem. At Bareco-Petrolite, "special" wax problems are routine, because fine, uniform-quality waxes are primary objectives, not by-products.

***Bareco Wax Company products are widely used in industry for**

polishes
packaging and wrapping
keg, barrel and tank lining
bottle cap and closure lining
multiwall bag treating
food locker paper
paper cups and cartons
batteries and transformers
coils and condensers
wire and cable insulation
telephone and telegraph equipment
grease and lubricants
leather treatment and dressings
printing inks and carbon papers
textile sizes
rust preventives
rubber manufacture
cheese coatings
electrotypers wax
investment castings
fruit and vegetable coatings
dental waxes
ski waxes
candles
crayons

For complete information, samples and price data, write or call

BARECO WAX COMPANY
Box 390, Kilgore, Texas
Box 2009, Tulsa, Oklahoma

A DIVISION OF PETROLITE CORPORATION

SALES OFFICES: NEW YORK, 150 East 42nd St., Suite 3432-36
PHILADELPHIA, 121 S. Broad Street
CHICAGO, 332 S. Michigan Avenue

B 56-2

Wax, spermaceti, blocks, cs	lb.	.30 -	.33
cakes cs	lb.	.31 -	.34
Sugar cane, dom., refd., slabs, 80 lbs ctns., works	lb	.65 -	.75
spot	lb.	67¼ -	.72¼
White lead (see Lead White).			
White pine bark, rossed bls	lb.	.18 -	.19
White precipitate USP powd, dms.,	lb	6.55 -	—
Whiting (see Calcium carbonate)			
Wild cherry bark, thin, nat., bls	lb.	.20 -	—
rossed, bls	lb.	.21 -	—
Witch hazel bark bls	lb	.16 -	.17
leaves, bls	lb.	.27 -	—
Wollastonite fine bgs, c.l., works	ton	39 50	—
l.c.l. ex whse	ton	56 00	—
medium bgs c.l. works	ton	27 00	—
l.c.l. ex whse	ton	44 00	—
Wootfat, crude (see Degras).			
USP (see Lanolin)			
Wottnseed American bgs	lb	.20	.25
Levant, bgs	lb	4.25	4.50
45°-47°C dms, c.l. same basis			

X

Xylene (see Xylol)			
Xylenol crvst, 58°-60°C., m.p., dms.,			
l.c.l., works	lb.	.40	—
56°-58°C. dms. l.c.l., works,			
frt. equald	lb	.30	—
	lb	.212	—
l.c.l. same basis	lb	.215	—
tanks same basis	lb	199	—
fraction, b.r., 7°-9 C., dry above 227°C dms. c.l., same			
basis	gal.	.96 -	—
l.c.l. same basis	gal.	.99 -	—
tanks same basis	gal.	.85 -	—
dry at or below 227°C., dms., c.l. same basis	gal.	1.11 -	—
l.c.l. same basis	gal.	1.14 -	—
tanks, same basis	gal.	1.00 -	—
Xylidines, mixed o-m-p, dms., c.l or t.l., works	lb	.39 -	—
l.c.l. same basis	lb	.40 -	—
tanks same basis	lb	.38 -	—
Xylol, coaltar, indust., tanks works:—			
Bethlehem Pa	gal	.34 -	—
Birmingham dist	gal.	.32 -	—
Chicago dist	gal.	.35 -	—
Cleveland dist	gal.	.34½ -	—
Geneva, Utah	gal.	.27 -	—
Johnstown Pa.	gal.	.33 -	—
Lackawanna N Y	gal	.35 -	—
Lone Star Tex	gal.	.33 -	—
Lorain Ohio	gal.	.33 -	—
Middletown Ohio	gal.	.34 -	—
Minnequa Colo	gal.	.34 -	—
Philadelphia dist	gal.	.34 -	—
Pittsburgh dist	gal.	.32 -	—
Sparrows Point Md	gal.	.34 -	—
Terre Haute Ind	gal	.35 -	—
Youngstown, Ohio	gal.	.32½ -	—
petroleum, indust., tanks, works:—			
Bayonne N J	gal	.34 -	—
Baytown Tex	gal	.33 -	—
Chicago Ill	gal	.35 -	—
Houston, Tex	gal.	.33 -	—
Philadelphia Pa.	gal.	.34 -	—
Providence R I	gal	.35 -	—
Wood River Ill.	gal	.33 -	—

Y

Yara, yara, cns	lb.	2.15	2.65
Yeast, brewer's, dry USP, 50 int'l B units per gram, 100-lb. dms	lb.	.47 -	—
90 int'l B units per gram, 100-lb dms	lb.	.52 -	—
200 int'l B units per gram, 100-lb. dms	lb.	.56 -	—
300 int'l B units per gram, 100-lb dms	lb.	.60 -	—
debittered, USP, Saccharomyces, dlvd	lb.	.27 -	—
Torula, USP dlvd	lb.	.18 -	—
Yellow, barium chromate, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul	lb.	.33 -	—
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below			
Benzidine, AAA, bbls., dlvd	lb.	2.10 -	—
AAOT bbls, dlvd	lb	2.85 -	—
Lightcast bbls dlvd	lb	3.15 -	—
Cadmium, CP, all shades, bbls., frt. alld E. of Rockies	lb.	2.85 -	—
Selenide lithopone, all shades, bbls., frt alld E of Rockies	lb.	4.05	—
Cadmium yellows, Los Angeles and San Francisco ex whse. 1c per lb higher			
Chrome, CP, bbls., dlvd. N. of Tenn., and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island	lb.	.33½ -	.35
Dlvd Ala Fla. Ga. La (Shreveport 1¼ higher); Miss., N C., S C. Penna., Dallas, Tex 1¼c higher; Ft Worth Tex 1½c. higher; El Paso Tex. 2c higher; Cedar Rapids Des Moines, Kansas City, Lincoln Omaha St Joseph 1.6c higher; dlvd Pac Coast for Denver, Pueblo Salt Lake City Wichita prices are equalized with Chicago			
Hansa, 10 g. bbls., same basis as yellow, chrome	lb.	2.25 -	—
G pigment bbls	lb	1.91	—
Iron oxide, natural French type, bgs., c.l., works	lb	06	—
Peruvian type bgs. l.c.l	lb.	.0205 -	.0345
pure bgs. c.l. works	lb	11½	—
l.c.l. works	lb	11¾	—
Mercury, oxide, bbls., 1,000-lb. lots.	lb.	5.38 -	—
smaller tots	lb	5 60	—
Ocher (see Yellow, iron oxide, natural)			
Zinc (chromate) bbls, dlvd	lb	.27 -	.27½
basic, bbls, dlvd	lb.	.31 -	.32½
Yerba santa leaves, bls	lb.	.40 -	.42
Yohimbine hydrochloride bots tin	oz.	3.75 -	4.25

Z

Zein, bgs. 36,000-lb. lots or more	lb	.38 -	—
1,000 to 36,000 lb lots, works	lb	.40 -	—
smaller lots, works	lb	.43 -	—
Zinc acetate NF VIII, dms	lb	.53	—
tech., dms., works	lb.	.29½ -	.29¾
Borate bgs., c.l., dlvd E	lb	.192	—
l.c.l dlvd E	lb	.202	—
Chloride, NF, gran., dms	lb.	.42 -	—
precip., powd., dms	lb.	.26 -	—
soln. 50% dms. c.l. works,	100 lbs.	5.80 -	—
l.c.l., works	100 lbs.	6.40 -	—
tanks, works	100 lbs.	5.15 -	—
tech., fused, dms., c.l., works,	100 lbs.	10.70 -	—
l.c.l., works	100 lbs.	11.20 -	—
gran fib dms., c.l., works	100 lbs.	11.45 -	—
l.c.l., works	100 lbs.	11.95 -	—
Zinc chromate (see Yellow, zinc),			
Cyanide, kgs. 1,000-lb lots or more, works	lb.	.523 -	—
smaller lots, works	lb.	.543 -	—
Dust, pigment, bbls., c.l., works	lb.	.17½ -	—
l.c.l., works	lb.	.18½ -	—
Fluoride, bbls., works	lb.	.49 -	.50
Hydrosulfite, dms., c.l. frt alld	lb.	.21½ -	—
l.c.l. frt all.	o	.22	.37½
Metal, prime western slabs, E. St. Louis	lb.	.13½ -	—
New York	lb.	.14	—
Naphthenate, liq., 8% Zn., dms., frt. Alld	lb.	.24½ -	—
10% Zn dms frt alld	lb.	.30	—
Nitrate, tech., cryst., bbls. works,	lb	.20 -	—
Oxide pigment, American process, lead-free bgs., c.l., frt. alld	lb.	.14½ -	—
l.c.l. same basis	lb.	.15½ -	—
leaded, 35%, bgs., c.l., mills, frt alld	lb.	.15½	—
l.c.l. same basis	lb.	.16½	—
50%, bgs., c.l., same basis	lb.	.15⅞ -	—
l.c.l., same basis	lb	.16⅞	—
French process, coml., green seal, bgs., c.l., frt. alld	lb.	.15¾ -	—
t.c.l. same basis	lb.	.16¾	—
red seal bgs c.l. same basis	lb	.15¼ -	—
t.c.l. same basis	lb.	.16¼	—
white seal, bgs., c.l., same basis	lb	.16¼ -	—
t.c.l. same basis	lb.	.17¼	—
USP, ctns., c.l., frt. alld	lb	.17¼ -	—
l.c.l., same basis	lb	.18¼	—
Zinc oxide Pac. coast prices 1c. higher.			
Phenolsulfonate, NF gran., dms	lb	.39	—
powd. dms	lb	.42	.49
Zinc resinate, precip., 7.2-7.6% Zn., dms frt alld	lb.	.29 -	—
Silicofluoride, dms., works	lb.	.12½ -	.14
Stearate tech, USP ctns c.l	lb.	.39 -	—
	lb.	.39 -	—
t.c.l.	lb	.40 -	.44
Sulfate, powd., monohydrate, 36% Zn bgs, c.l. dlvd E	100 lbs	8.75 -	—
t.c.l., dlvd E	100 lbs	9.75 -	—
Zinc sulfate in bbls 40c higher			
USP gran dms	lb	.26 -	—
Sulfide, pure bgs., c.l., dlvd	lb.	.2530 -	—
Undecylenate, dms	lb	2.25	2.50
Yellow (see Yellow, zinc)			
Zinc-ammonium chloride, bgs., c.l., works	100 lbs.	10.25 -	—
bbls., c.l., works	100 lbs.	10.85 -	—
t.c.l., works	100 lbs.	11.35 -	—
Zinc-formaldehyde sulfoxylate, basic, dms. c.l	lb	.25½ -	—
t.c.l.	lb.	.26 -	—
Zircon (G) gran. bgs. c.l. works,	lb.	.03⅛ -	—
5 tons to c.l., works	lb.	.03⅜ -	—
1 ton to 9,999-lb lots works	lb	.04 -	—
smaller lots works	lb	.06½ -	—
milled, bgs., c.l., works	lb.	.04¼ -	—
5 tons to c.l., works	lb	.04⅜ -	—
1 ton to 9,999-lb lots works	lb	.04⅝ -	—
500-1,999-lb lots, works	lb	.07½ -	—
Zircon (G) in barrels 1c higher			
Zirconium acetate, 13% com., ZrO., c.l. 30,000 lbs minimum, works	lb	23	—
Hydride, ctns., works	lb	7.00	8.45
Nitrate, dms., ex whse	lb	4.50	7.00
Oxide 92½-99% white grd., bbls or bgs, works	lb	1.50	—
lump electric-fused, bgs., lump, electric-fused, bgs., c.l., works	lb	44	—
5-ton lots, works	lb	44½	—
1 ton to 9,999-lb lots, lbs works	lb	45	—
CP white grd bbls or bgs, works	lb	1.50 -	—
lump electric fused, bags, 500 to 1,999-lb lots, works	lb	45½	—
smaller tots works	lb	48	—
milled electric-fused, bgs., c.l., works	lb	59	—
5-ton lots, works	lb	59½	—
1 ton to 9,999-lb lots, works	lb	60	—
500 to 1,999-lb lots, works	lb	60½	—
smaller lots works	lb	63	—
Oxychloride, cryst., ctns., 5-ton lots, works	lb	35½	—

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How Is the Economy Gaining

It is the generally expressed opinion of those who for some reason or another concern themselves in any of various ways with such things that the "economy" of this country is "gaining." There are so many engaged in that sort of concerning that it is not logical to expect many of them to be in agreement as to the meaning of the terms, "economy" and "gaining." As it is with all things humanly viewed, what each one sees depends primarily on where he sits —or stands.

If "economy" means business, there is reason to believe that it is gaining —at least in some areas—because the financial news in the daily press has had it that corporation dividends this year are running at least a billion dollars ahead of last year's mark. If, however, "economy" means the general financial condition of all the people, its gaining is not all profitable: there has been too much of it in prices and in debts.

Those "gaining" are what the more cautious commenters are inclined—at least privately—to look upon as indicators of more or less of a wind blowing in the direction of inflation. So it is that the President of the United States has said that price advances must be stopped. But, there is little agreement on that point throughout the upper reaches of the political sectors of the economy—and still less on the advisability of interfering with the rising trend of debts. In fact, there is some measure of purpose to get a bit more easy in the checking of that trend, at least in connection with the getting of housing. So, there is a wide variety of expectations among those who more or less fidgetly await the economic program pronouncements to be made in the Presidential message to congress about six weeks hence.

The President and his Council of Economic Advisers look upon inflation as a possibility bordering closely upon the probable—there are many observers who say it is already an actuality—but they believe that it can be kept short of the bursting point. The most pertinent item in their observations has it that, while government has a heavy responsibility to utilize its resources toward that end, it cannot, of itself, do the whole job. There is a big task there for business, in which management and labor must collaborate with a clear concept of what is to be done and of their separate and joint responsibilities and potentialities in its doing.

Although it cannot with adequate justification be said that the time is here for the applying of the brakes to the "gaining" of the "economy," it must in all earnestness be said that there should be easing up of the stepping on the gas. There is no reason to hurry. There is very much reason to slow up—and live.

Why Should We Pay

Whether the United States government will shortly abandon the position it was reported to have assumed about two weeks ago in rejection of appeals from Britain and France for help out of the petroleum predicament resulting from their shortsighted blundering into Middle East affairs is still a puzzle. The position was taken reportedly because of a desire not further to anger the sources there of oil still available to this country. There was said to be a conditional term for it, to be determined by the progress of stabilization in the disturbed regions—including the withdrawal of invading troops.

But, the government did not lay a ban on the supplying of oil to needy Europeans by producers in this country, and there has appeared to be a tendency on the part of those producers to open their supplies to European bidders, with a consequent laying of higher prices on consumers in this country. Whether that attitude applies to gasoline and furnace oil, as well as to industrial fuel oil remains to be seen, although higher prices for the former two are already being predicted. Production could take care of a sizable increase in consumption; but there have been at least implications that the profit motive would be a strong factor.

The reported political attitude on the legislative side is against the supplying of oil from this country which would involve violation of the conservation United Nations.

There is no sound reason why consumers of petroleum in the United States should be obliged to pay for the regulations of oil-producing states, and with those restrictions on production, the effect of supply: demand pressure on prices would be very "uplifting." There are several statutory conflicts which might be involved in the oil mess. At least one of them has been set aside by a ruling of the federal Attorney General that the formation of a supplying pool by the fifteen producers who constitute the American Middle East Emergency Oil Committee would not be in violation of the antitrust laws. The defense production act of 1950 was cited as affording a bypass; although its loophole appears to be open only in case of menacing of national defense or of collective action through the blundering of European governments. If this country's government is in any way obligated to help its so-called, but inconsiderate "allies" in their needs for oil, it could transport oil from Venezuela or around the cape from the Middle East—if in neither event there was a violation of conditions set up by suppliers on the transferring of oil supplied to the United States. Of course, oil thus provided would cost more—it is not to be suggested that the transporting be done at the expense of payers of United States taxes—blunders are always costly. But, why should even any part of the cost of the Middle East blunder fall upon the people of the United States?

Seawater Is Doubly Useful

Interest in the practicable potentialities of the desalting of seawater as a means of meeting the essential water needs of the people of the world is steadily growing in extent and application in many lands.

Although those needs in this country are heaviest in sections where applications of that means of relief would not be economically feasible, the federal government has been conducting experimental research in that connection for several years, while still placing the greater part of its reliance for practical service upon the storing and distributing programs of the engineering forces of the army, now particularly and necessarily important in the drought-stricken valleys of the Missouri and Mississippi rivers.

Strangely enough—in a geographical sense—the work on the conversion of seawater is being done by the Department of the Interior. Much of its study has been applied in connection with processes for the application of the heat from the sun as an evaporating force. Special work has been done in the Southwest—where there is some "interior" salt water. The department's findings recently reported are that "the use of solar heat to distill salt water has promise of economical large-scale production of fresh water." The practical application of the method depends, however, on the development and production of relatively inexpensive distillation equipment.

One of the strange aspects of world interest in the conversion of seawater into fresh water is presented by comparison of the reported work in this country on distillation by the application of solar heat and that of the governmental project in generally sunnier Israel involving the erection of a pilot-plan desalting plant at a cost of more than $400,000—to use a new freezing method developed by an Israeli engineer.

Numerous methods have been suggested, and many of them—and others —are being tested for the desalting of seawater. Among the most economically promising are some which have chemical aspects of process or products—or both. The field is another one of more than a little potentiality in the direction of chemical industrial integration—"diversification" may be a more widely applicable term. It is steadily becoming more and more apparent that the manufacturing of chemicals, standing alone, is getting to be over-costly. Its integration with the petroleum, coal, metal, and other mineral industrial enterprises, and as yet to a lesser extent with those in primarily wood or other vegetable areas, may justify the predictions that chemical manufacturing is facing the loss of its individual industrial existence. But, it must be admitted that the movement is not without substantial contribution to its continued profitable existence.

There are relatively big opportunities for such profitable existence integration with the broad economic service of meeting the fresh water needs of the people of the world by way of the lifting out of the heavy load of chemical industrial materials carried in the water of the seas.

Washington Talks It Over

Secretary Week's WOC Plan Beginning to Show Wear Due to Problems of Rights, Qualifications.

By Ralph L. Cherry
Chief, OPD Washington Bureau

Secretary of Commerce Sinclair Weeks' policy of inviting men from industry to take temporary positions in the department on a without compensation basis (WOCs) and thus provide it with a little more know-how of the operations of industry and industry, in turn, with a more knowledgable conception of how government operates, is beginning to show signs of wear.

This condition can be traced to two separate causes:—(1) the down-grading of the WOCs by congress by denying them the right to make or participate in the making of government policy; and (2) the standards of qualification set up by the department itself for employment of WOCs.

It isn't much that Mr. Weeks can do about the first. The forces in congress which are sharply critical of the employment of WOCs still control the situation. He can, however, remedy the second cause.

The present policy in the department is to employ as WOCs only those men from industry who are at least thirty-five years of age and in the $10.000-a-year or above salary bracket. There could be no objection to this policy when it was first established.

The country was in the midst of a huge mobilization program and the need from industry was for men qualified to step in and take immediate control of the many problems that were arising.

Now the situation has changed. Mobilization is mostly completed and much of the work might be characterized as routine. Mostly it is a matter of studying supply and demand for particular critical commodities and keeping up with the changes as they occur from week to week. Some of the WOCs are complaining that they thought they had long since passed beyond such analytical work.

The feeling is that Mr. Weeks can beef up the program by lowering the qualifications to permit employment of younger industry men who have promise of becoming leaders in their industry. Brief on-the-job training in government for these men should pay dividends in later years both to government and industry.

Suez Consequences

Most all the talk on the effects of the closing of the Suez Canal has centered on oil. This is a neutral consequence since oil is so important to the total economies of all nations, both as an essential commodity of war and of peace. But from the standpoint of its effect on trade in other commodities, the shutdown of the canal has been even greater.

For example, 69 percent of the world's shipments of rubber reached their destination via the Suez, and now must take the long way 'round; 71 percent of the copra went via Suez; and 67 percent of the raw jute. Some other agricultural products hard hit by the closing were coconut oil, palm oil, and wool.

Although shipments of agricultural products to and from the United States represented less than 10 percent of the movement of such commodities through the Suez, for certain products this trade route was essential. About 70 percent of the US rubber imports from Indonesia and Malaya moved through the canal. Almost all of the raw jute and jute products from India and Pakistan traversed the canal. Other important US agricultural imports using this trade route included sugar from the Philippines, sisal from East Africa, tea from Ceylon, India and British East Africa; and oilseeds and vegetable oils.

Unemployment Payments Drop

The number of workers drawing unemployment insurance checks is one of the best tools economists have for measuring the jobs situation in industry.

During the twelve-month period ended last June 30, a Bureau of Labor Statistics report showed that one-third fewer workers received benefit payments each week than in the previous year, and total payments were down 27 percent.

As of June 30 approximately 41,500,000 individuals had unemployment insurance protection. This was about 1,600,000 more than during the previous year, due principally to extension of federal and state laws to firms previously excluded because of their small size.

Thirty-five states with more than 83 percent of the covered workers now provide a maximum basic weekly benefit of $30 or more. Of these, twelve states provide a basic maximum amount of $35 or more. About 71 percent of covered workers are employed in states which have a maximum potential duration of 26 weeks of benefits.

Pesticides Changing Flavors?

Are pesticides changing the flavors of foods? This is a matter of some debate among experts and arguments can be heard on both sides of the issue. Maybe an answer will soon be forthcoming.

An advisory group on food and nutrition recently took cognizance of this debate and concluded that there is need for finding uniform ways of evaluating palatability of foods—that is for standardizing measurements of flavor, texture, and color of foods.

If the committee's recommendations are accepted and the standard adopted, industry then will have a yardstick for measuring the effects of pesticide residues on plants, animals, and soils.

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Heavy Chemicals

Ammonium acetate, lead acetate, and lead nitrate were increased in price effective Saturday on spot. The list of price increases in chemicals scheduled to be advanced January 1 continued to mount last week. Granular and powdered potassium nitrate will be advanced on that date for the first time in five years. Duohydrated disodium phosphate, anhydrous and dentifrice grades of dicalcium phosphate, and calcium pyrophosphate joined the parade of January advances last week. Spot tankcar price of sodium metal has been scheduled to go up December 10.

Also slated for January 1 advances, as announced earlier, are:—Mono and tricalcium phosphates, borax, boric acid (except anhydrous), and some borates, anhydrous sodium sulfite, and liquid and solid sodium silicates.

September production levels of industrially important inorganic chemicals were generally lower than for August, but higher than for the corresponding period of last year, according to the Bureau of Census.

Mercury was higher last week, as stocks continued to be closely held in the face of spotty demand. The Middle East crisis appeared to have a less profound influence on nonferrous metals markets.

Chlorine demand continued strong, and producers were reported operating at or near capacity in order to fill contract commitments.

The American Pulp and Paper Association reported production for the week ended November 24 at 93.2 percent of theoretical capacity, as compared with the revised figure of 97.9 percent for the previous week, and 99.0 percent for the corresponding week of last year.

PriceTrends

Advanced

Mercury, $2 per flk.

Reduced

Potassium stannate, 0.4c. per lb.
Sodium stannate, 0.4c. per lb.
Stannic chloride, 0.4c. per lb.
Stannous chloride, anhyd., 0.6c. per lb.
hydrous cryst., 1½c. per lb.
Sulfate, 0.6c. per lb.
Tin, 1¾c. per lb.

Comparative Price Indexes

(1100—1949 average)

Last week	Prev. week	Last month	Dec. 2, 1955
102.35	102.34	102.38	100.45

For Current Prices see Page 9

Acid, Boric — Higher prices for all grades but anhydrous are scheduled by the industry to go into effect on spot and contract January 1. It appeared last week that all producers had met the increase announced by a manufacturer late in October.

Acid, Chromic—Demand for plating continued strong, particularly in view of heavy production of new automobiles. Reaction to recently higher prices appeared to be dying out.

Acid, Hydrochloric — Buying interest continued strong throughout heavily industrialized areas. Despite persistent heavy demand, there was plenty of acid on hand to satisfy all needs.

Acid, Phosphoric—The market continued to show strength, as good demand warranted large volume production schedules. Prices were without change, although some phosphates have been scheduled to be advanced the first of the year.

Acid, Sulfuric — Synthetic detergents, rayon, steel, pigments, chemicals and other markets continued to be active. The fertilizer industry continued seasonally weak.

Steel production last week rose to an estimated 2,469,000 tons, or 100.3 percent of capacity from actual production of 2,463,000 tons, or 100.1 percent of capacity the previous week, according to the American Iron and Steel Institute.

Ammonium Acetate—Purified was advanced Saturday by 3c. per pound, and will go up January 1 on contract. Material was quoted at 41c. to 55c. per pound, drums, freight allowed, as to quantity.

Borax—It was reported last week that price advances scheduled for January 1, 1957, by a producer had been met by the rest of the industry.

Calcium Phosphates — Following announcements of projected price increases for mono and tricalcium phosphates a week earlier, advances in anhydrous and dentifrice grades of dicalcium phosphates were announced last week.

Calcium pyrophosphate is also scheduled by a producer to be advanced 30c. per hundred pounds, effective January 1.

Anhydrous and hydrated monocalcium phosphates will be advanced 30c. per hundred pounds January 1, while tricalcium phosphate is slated to be boosted 50c. per hundred pounds.

Chlorine—Demand for chlorine continued exceedingly strong. Producers were reported pressing facilities to the limit in trying to keep up on contract shipments.

The Bureau of Census reports that in September, chlorine facilities operated at 98 percent of capacity (10,700 tons per day), as compared to 88 percent of capacity (9,600 tons per day) in August.

Copper Sulfate — Domestic production in September decreased for the sixth consecutive month, and except for January, was the smallest of the year, according to the Bureau of Mines.

Output was 20 percent less than in August; shipments declined 19 percent and were 1,000 tons less than production; stocks rose 16 percent. At the September rate of shipments, stocks were sufficient for a little more than a month's requirements.

Foreign trade data for September are not available. There were no imports in August, and exports were 2,754 tons.

Gross weight production of copper sulfate in September declined to 4,792 tons from 5,964 tons in August. Monthly average output in 1955 was 6,507 tons.

Shipments declined to 4,108 tons in September from 5,072 tons in August. Stocks at the end of September increased to 4,640 tons from 3,996 tons on hand at the end of August.

Lead Acetate—The price advance of 2c. per pound across the board for all grades of lead acetate initiated by a producer earlier was rapidly being met by other makers last week. New prices will become effective January 1 on contract. Spot

Inorganic Chemicals Output: September

The following figures compiled by the Bureau of Census indicate production of industrially important inorganic chemicals, in tons.

	September	August
Acid, chromic	1,247	1,303
Hydrochloric	77,331	68,513
Hydrofluoric	6,209	6,468
Nitric	183,498	188,875
Phosphoric	289,570	263,647
Sulfuric, gross	1,272,072	1,181,809
Aluminum chloride, anhyd.	2,705	2,605
liq., cryst	824	1,301
Calcium carbide	81,693	76,718
Carbon dioxide, liq., gas.	25,380	27,789
solid	51,424	66,394
Chlorine gas	320,882	298,799
Phosphorus, elemental	24,837	25,580
Oxychloride	1,636	1,383
Trichloride	1,543	1,208
Potash, caustic, liq.	6,032	6,740
solid	1,322	1,187
Soda ash light	227,097	210,724
dense	145,383	164,917
natural	53,561	53,585
Soda, caustic, electrolytic liq.	320,530	293,085
lime-soda, process, liq.	34,154	34,322
Sodium Bicarbonate	9,144	8,196
Chlorate	4,583	4,606
Metal	11,332	11,799
Phosphate, monobasic	721	835
Dibasic	2,306	2,255
Tribasic	4,011	4,527
Meta	4,634	4,723
Tetra	7,776	7,994
Acid pyro	1,310	1,172
Tripoly	51,618	55,849
Silicate	47,597	51,928
Sulfate, anhyd.	25,813	25,792
Glaubers salt	9,613	10,198
Saltcake, coml.	57,329	56,459
Sulfide, conc	2,330	2,673
other	3,029	2,717
Sulfur dioxide	5,061	5,536

Heavy Chemicals

prices were boosted on Saturday, but are not reflected in the prices current section of OPD, which closed Friday night.

Lead Nitrate—This material will be advanced 3c. per pound effective January 1 on contract. Spot price went up to 26¾c. per pound, barrels, works, on Saturday.

Potassium Nitrate—NF granular and powdered potassium nitrate are scheduled by a producer to be advanced 25c. per hundred pounds, effective January 1.

This increase marks the first time that granular and powdered material prices have changed since January 1, 1952. New price for granular in bags will be $9.50 per hundred pounds in 20-ton lots, and $10.85 to $11.25 per pound, smaller lots, same basis, as to quantity.

Powdered nitrate will list at $10.50 per cwt., bags, 20-ton lots, and $11.75 to $12.25 per cwt., smaller lots, as to quantity.

There was as yet no uniformity in pricing throughout the trade, but sources indicated that the matter of possible price increases for crystals, granular and powdered nitrate had been under consideration for some time.

Soda Ash—Buying interest continued good for light and dense ash, and was judged about in keeping with the time of year. Supplies were plentiful.

Sodium Phosphates—Disodium phosphate duohydrate will be advanced 25c. per hundred pounds by a producer, effective January 1. This would bring the price up to $7.70 per cwt., bags, carlots, freight equalized, and $8.10 per cwt., less carlots, same basis.

Sodium Silicate—Prices will be advanced 10c. per cwt. for 40 degree, 15c. for 47 degree, 20c. for 52 degree, and $5 per ton for solid, effective January 1 on spot and contract.

Sodium Sulfite—Anhydrous sodium sulfite will be raised 25c. per hundred pounds, effective January 1 on spot and contract. New price will be $3.50 per hundred pounds, bags, carlots, f.o.b. works, and $4 per cwt., truckloads, same basis.

Tin Salts—With lower tin, potassium stannate was quoted at 74.8c. to 81.4c. per pound; sodium stannate, 62.5c. to 67.9c.; stannic chloride, 84.2c. to 85.2c.; anhydrous stannous chloride, 98.2c. to $1.477; hydrous crystals, 85½c. to 86½c.; and sulfate, $1.034 to $1.054.

Nonferrous Metals

Copper—Producers anticipated an increase in demand, but current business was slow to pick up. Producers' prices held unchanged at 36c. per pound, delivered US destinations.

The following figures, supplied by the copper Institute, show production, shipments, and stocks of copper metal, in tons:

World	*October*	*September*
Production:		
Crude primary	225,305	221,401
Secondary	13,849	8,126
Refined	263,292	217,522
Shipments	234,365	219,479
Stocks	333,207	309,351

United States	*October*	*September*
Production:		
Crude primary	94,955	88,659
Secondary	12,546	7,367
Refined	136,379	112,484
Shipments	113,353	104,486
Stocks	106,120	93,202

Mercury—Metal was firmer last week at $255 to $257 per 76-pound flask, spot.

Silver—Bullion continued unchanged, at 91⅜c. per troy ounce, spot, on Friday.

Tin—The market was still strong, but declined fractionally. Straits metal was quoted at $1.10½ per pound, spot, on Friday.

Research Chemicals Offered

Schwarz Laboratories, Inc., Mount Vernon, N. Y., has made seven biochemical preparations commercially available for the first time. The new additions to the Schwarz list include:—N-acetyl dl-homocysteine thiolactone, cysteinyl glycine, and the radioactive compounds, inosine-8-C^{14} xnanthine-8-C^{14}, xnthylic acid-8-C^{14}, xanthosine-8-C^{14}, and-inosinic acid-8-C^{14}.

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N *—40-41° Baume, 1:3.2	STC	100 lbs.	$1.20
	CL Returnable Drums	100 lbs.	1.55
K *—47° Baume, 1:2.9	STC	100 lbs.	1.90
	CL Returnable Drums	100 lbs.	2.25
RU *—52° Baume, 1:2.4	STC	100 lbs.	2.30
	CL Returnable Drums	100 lbs.	2.65
C *—60° Baume, 1:2.0	STC	100 lbs.	2.95
	CL Returnable Drums	100 lbs.	3.30

Sodium Silicate, Solid (Glass), 1:3.2

CL, Bulk	Net Ton	$60.00
CL, Bags	Net Ton	67.50

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Obituaries

Erwin H. Doht

Erwin H. Doht, vice-president in charge of purchasing for Mallinckrodt Chemical Works, St. Louis, Mo., died unexpectedly November 25 at his home in Clayton, Mo. He was sixty-two years of age.

Mr. Doht joined Mallinckrodt in 1909 and left the company for military service during World War I. Following the war, he returned to the firm as a purchasing agent, later became general purchasing agent and in 1948 was made vice-president in charge of purchasing.

Mr. Doht was a past president of the Purchasing Agents Association of St. Louis and served at one time as a director of the National Association of Purchasing Agents.

A. F. Drucklieb

A. F. Drucklieb, vice-president in charge of the wax division of Strohmeyer & Arpe Company, New York, died November 28, after a long illness, at Community Hospital, Montclair, N. J. He was 63 years of age.

Well known in the wax trade, Mr. Drucklieb had been associated with Strohmeyer & Arpe since 1911. He was a director of the American Wax Importers Association.

Edward Skinner

Edward Skinner, vice-president of Bahrain Petroleum Company, Ltd., died November 23 in New York. He was sixty-four years old. Mr. Skinner started his career with Standard Oil Company of California as an office boy. In 1932 drillers under his supervision struck what proved to be one of the richest oil finds of all time on the island of Bahrain in the Persian Gulf.

Sir Lionel Whitby

Sir Lionel Whitby, bacteriologist and hematologist of London, England, died November 24 in that city. He was sixty-one years old.

In 1938, Sir Lionel was mainly responsible for the introduction of sulfapyridine in the treatment of pneumonia and allied infections. This followed his experimental studies of sulfoamides.

H. Roger Coleman, former chemical products salesman with J. S. Bates Chemical Company, Lansdowne, Pa., died November 29 in New York. He was fifty-nine years old.

Howard F. Kichline, director of research, chief chemist and operations manager of North American Cement Corporation at Catskill, N. Y., died November 27 in that city. He was sixty-five years old.

Walter P. Konrad, Chicago branch manager for the inorganic chemicals division of Monsanto Chemical Company, St. Louis, Mo., died November 23 in Miami, Fla. He joined Monsanto in 1925.

Dr. Percy J. Leaper, in charge of the research and development laboratory of Fels & Co., Philadelphia, died November 26 in that city. He was fifty-seven years old.

Dr. George Moore, botanist, who perfected a method of inoculating soil with bacteria to enable certain crops to use atmospheric nitrogen, and physiologist and algologist for the bureau of plant industry of the Department of Agriculture in 1901, died November 27 in St. Louis, Mo. He was eighty-seven years old.

Cameron Risby Whitehorne, former official of International Nickel Company of Canada, died November 27 in Mexico City, Mexico. He was seventy-five years old.

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Flaxseed World Production Seen Near All-Time High

World production of flaxseed in 1956 is estimated at a near record high of 173 million bushels on the basis of preliminary information available to the Foreign Agricultural Service.

This is over one-third larger than last years' output, now revised to 126 million bushels and 30 percent above the prewar average.

Flaxseed output increased from 1955 in all of the major producing areas of the world with the exception of India. The bulk of the 47 million bushels increase is accounted for by Canada, Argentina, and the United States. A sizable expansion also is believed to have ocurred in the Soviet Union.

World supplies of flaxseed for the 1956-57 season are substantially larger than in past years, FAS said. Availabilities for export as seed or oil from foreign countries total about 55 million bushels, which approximates average world exports in recent years.

In addition, the United States will have an exportable supply of approximately 20 million bushels as seed or oil assuming carryover stocks are the same as at the close of last year.

However, world prices are below the equivalent of the U. S. support price level. Unless world prices rise sufficiently to induce exports from the United States, virtually all U. S. flaxseed above domestic requirements is likely to be placed under loan or purchase agreement and be acquired by CCC after loans mature on April 30, 1957.

Board Surfacing Resins Available from Cyanamid

Two board surfacing resins are now available in commercial quantities from the plastics and resins division of American Cyanamid Company, New York.

These resins, "Cyzac 2247" and "Cyzac 2352," have proved successful in experimental usage during the past year in plywood-pressure application of protective plastic surfaces directly to particle board and plywood, according to Cyanamid.

"Cyzac Resin 2247" is recommended for impregnating print-grade laminating papers. "Cyzac 2352" is recommended for impregnating overlay-grade laminating papers.

Nickel-Copper Scrap Basis For Export Quotas Revealed

The fourth quarter export quota of nickel-copper alloy scrap will be distributed among exporters on the basis of individual shipments made during the base period October, 1955, through September, 1956, the Bureau of Foreign Commerce announced last week.

The export quota for the fourth quarter is 500,000 pounds. In applying for licenses exporters must submit form IT-821, giving a statement of their past participation in exports of this material.

Parke, Davis Selects Site For Its $10 Million Center

Parke, Davis & Co., Detroit, Mich., has selected a site in Ann Arbor, Mich., near the University of Michigan campus, as the location for its new $10 million medical research center.

Harry J. Loynd, Parke-Davis president, said negotiations will be completed some time this week, when company executives, city officials and university representatives meet to sign formal contracts. The structure is expected to be completed by early 1959.

Gas Purifying, Drying Unit Development Told by Baker

Development of a new gas purifying and drying unit—incorporating catalytic purifying with reactivating-type dryers in one assembly for the first time—has been announced by Baker & Co., one of the Engelhard Industries.

Called the "Deoxo Puridryer MS," it has applications in the chemical, pharmaceutical, petroleum, electrical, metallurgical, and food-processing industries, as well as in experimental laboratories.

Int'l Minerals Moves in N. Y.

International Minerals & Chemical Corporation has moved its eastern sales offices from 61 Broadway, New York to 485 Lexington avenue in that city. The new telephone number is OXford 7-4040. Involved in the shift are three divisions of the company—agricultural potash, chemical potash and Ac'cent International.

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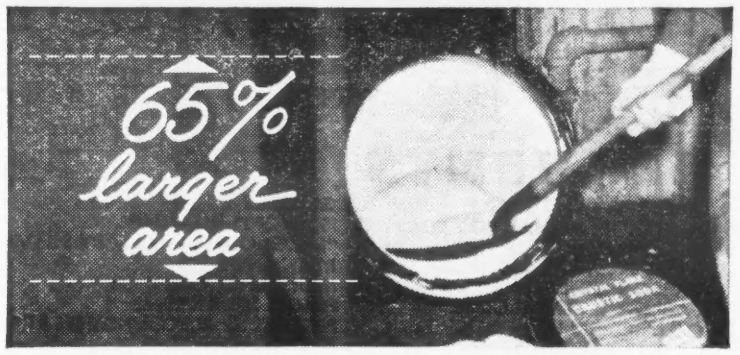


New caustic soda drum empties faster

Whether your operators scoop, shovel, or pour flake caustic soda from drums, they'll find the new Hooker drum easier, faster, and safer to work with.

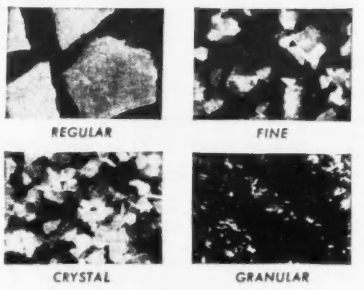
The lids on these new drums have been increased from 14 to 18 inches in diameter—equivalent to a 65% increase in opening area.

You pay nothing extra for this new drum. So, if you are now paying a premium for full open-head drums, you can get the many advantages of a larger opening at lower cost.

One thing you *won't* find changed on the Hooker drum is the lid seal. Six sturdy lugs grip the lid tightly to protect both contents and workers.

Something else that hasn't changed is the high quality of the caustic soda going into the drums.

You still have a choice of the four sizes shown here actual size. *Regular*, *Fine* and *Crystal* are nondusting and have uniform thickness. You can order all four sizes in the new 18-inch opening drums, in either 400 or 450 pounds net wt. For more information, just check with your Hooker jobber or write us today.



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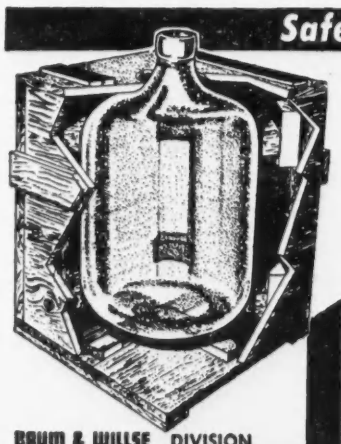

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Wyandotte Caustic Soda is the finest made—arrives pure, too, in drums and specially treated tank cars.

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Wyandotte Caustic Soda is available in many highly uniform grades—both anhydrous and liquid.

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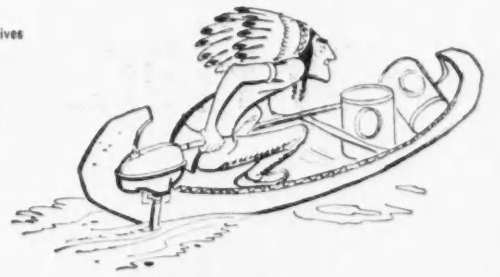

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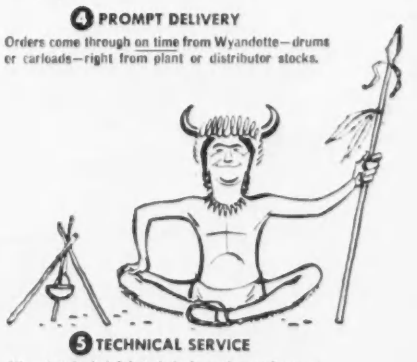
Orders come through on time from Wyandotte—drums or carloads—right from plant or distributor stocks.



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Aliphatic Organics

A major producer advanced prices of gallic acid 20 cents per pound effective immediately. The move marked the first time the acid had been increased in several years. It affected uniformly both the technical material, reported in this department, and the NF grade, reported under Drugs, Fine Chemicals. Minimum price for blackstrap molasses at New Orleans advanced another 1 cent per gallon, with demand in that quarter remaining slow to moderate in face of continued buyer resistance to price and several distributors remaining out of the market. Demand for blackstrap was moderate at New York, where the price remained unchanged.

Vinyl acetate figured in brisk trade again last week. Demand was steady at the level noted throughout recent months, well ahead of that of a year ago. Major new producers figured prominently.

Pentaerythritol was off somewhat in November. Trade sources were unable to attribute the decline, since underlying market factors appeared to be sound. They were counting on improved business in December.

Formaldehyde and the entire family of related chemicals were traded in heavy volume.

Oxalic acid continued slow. Trade sources said volume was steady in terms of trade over the past several months. Chief outlet in the current market was for use in radiator cleaning compounds, with laundries consuming substantial quantities for removal of rust from fabrics and general use of the acid as a bleaching agent.

Acetic Anhydride—The Tariff Commission reported that production amounted to 72,202,476 pounds in August, bringing the cumulative calendar year total through that month to 599,074,923 pounds. Monthly high and low through August, respectively, were 79,149,905 pounds turned out in March and 71,801,614 pounds produced in April.

Total output for entire year 1955 amounted to 843,492,429 pounds.

Acrolein—A vinyl group conjugated with a carbonylic group, this material was being offered for use in diverse chemical syntheses, in which field either or both groups might be reacted.

In addition to the simple compound itself, producers were marketing a number of derivatives, including glutaraldehyde in a 25 percent aqueous solution, 1,2,6-hexanetriol, acrolein dimer, 2-ethoxy-3,4-dihydro-2H-pyran, 3,9-divinylspirobi (m-dioxane), 2-chloroallylidene diacetate, 2-hydroxyadipaldehyde in a 25 percent aqueous solution, an anhydride mixture of glutaric acid, acrolein cyanohydrin, 1,5-pentanediol, 2,2,3-trichloropropionaldehyde, allylidene diacetate and 1,2,5,6-tetrahydrobenzaldehyde.

n-Butyl Alcohol—Cumulative total production through the first eight months of the calendar year was raised to 153,732,467 pounds with 16,736,156 pounds turned out, as reported by the Tariff Commission, in August. Total output through entire year 1955 amounted to 227,811,770 pounds.

The 22,751,513 pounds produced in March was the highest reported for any month this year through August, while a low was established in July, when output added up to only 15,819,512 pounds.

Ethanolamines—Trade was reported in heavy and growing volume.

Extraordinary potential was being realized incidental to the rapid market development of synthetic detergents. Syndets, up 99.3 percent in sales through the first half of calendar 1956, as compared to the same period in the year previous, now accounted for 69 percent of the total soap plus detergent market.

High-sudsing and grease-cutting properties were commonly incorporated in liquid synthetic detergents via organic builders developed from amides of ethanolamines.

Cumulative total production of mono, di and tri-ethanolamine through August, latest month for which Tariff Commission figures were available, was 62,976,958 pounds in calendar 1956. By contrast, entire year 1955 saw only 78,394,250 pounds produced.

August production itself was the least since January, amounting to 6,992,377 pounds. Some 6,889,054 pounds was produced in January. The monthly production record this year was 8,608,154 pounds turned out in July.

Ethyl Alcohol—Figures on production, withdrawals and stocks of undenatured, completely denatured and specially denatured ethyl alcohol, compiled by the Alcohol and Tobacco Tax Division, Internal Revenue Service, were as follows for the month of September this year and last:

Price Trends

Advanced

Acid, Gallic, tech., base quantity, 20c. per lb.
Molasses, New Orleans, 1c. per gal.

Reduced

None.

Comparative Price Indexes

(109—1949 average)

Last week	Prev. week	Last month	Dec. 2, 1955
130.74	130.46	130.38	130.73

For Current Prices see Page 9

Net Production

	Gallons 1956	1955
†Undenatured	32,941,647	40,923,279
*Completely denatured	44,637	82,738
*Specially denatured	21,441,996	20,342,376

Withdrawals

†Undenatured, tax paid	899,744	928,579
tax free	40,363,965	38,149,770
*Completely denatured	42,872	83,822
†Specially denatured	19,072,531	18,808,851

Stocks at end of Period

†Undenatured	40,077,865	39,417,239
*Completely denatured	11,597	17,491
*Specially denatured	9,952,557	9,806,323

* Wine gallons. † Proof gallons.

Materials used in industrial alcohol plants in September this year and last were reported by the Alcohol and Tobacco Tax Division as follows:

	Pounds 1956	1955
Corn and corn products	4,057,900	2,762,009
Rye and rye products		
Malt and malt products	132,150	117,149
Wheat and wheat products	1,477,730	575,172
Sorghum grain and sorghum grain products	1,518,370	
Total grain	7,186,150	3,454,321
Ethylene gas	7,679,750	9,276,788
Other materials	663	1,494

	Wine Gallons 1956	1955
Molasses	3,802,402	8,981,322
Ethyl sulfate	20,425,819	19,222,613
Sulfite liquors	21,927,900	23,541,000
Other materials	4,519,313	1,849,546
†Products used in redistillation	873,434	829,867

† Proof gallons.

Formaldehyde—This material and the whole family of related chemicals were reported moving extremely well last week. The market was well sustained by heavy consumption of formaldehyde in manufacture of both phenol-formaldehyde and urea-formaldehyde resins.

Formic Acid—The Tariff Commission reported 979,715 pounds produced in August, the least that was turned out in any month of this year up to that time. The 1,475,090 pounds produced in April was the most turned out in one month in 1956 through August.

Output through entire year 1955 was put at 15,594,016 pounds. Cumulative total through the first eight months of 1956 was brought up to 10,278,658 pounds.

Gallic Acid—A major producer increased base prices on both technical and NF grades by 20c. per pound effective immediately. It was the first price advance on this item in several years.

Current quotations on the technical material were now $1.78 per pound in 1,000-pound lots and from $1.80 to $2 per pound in smaller lots, price depending on quantity. The material was packaged in barrels.

Hexamethylenetetramine—Production in August of 2,597,997 pounds, as reported by the Tariff Commission, brought cumulative total output through the first eight calendar months up to 20,135,222 pounds. That figure slightly exceeds the 20,007,249 pounds representing total output for entire year 1955.

For 1956 through August, the monthly high was 2,844,278 pounds produced in March, and the monthly low was 1,817,931 pounds turned out in July.

Molasses—Minimum price on sales of blackstrap at New Orleans climbed another 1c. per gallon in the week ended last Monday. Quotations now ranged from 26c. to 27c. per gallon. They ranged from 25c. to 27c. per gallon in the week previous, with most sales in that week reported at 26c. per gallon.

Demand remained slow to moderate at

Aliphatic Organics

New Orleans. Material was moving in heavy volume on contract commitments at lower prices that prevailed some weeks ago, but consumers were adamantly resisting current prices. As at nearly all other distributing points, supply was adequate, Department of Agriculture reported. A number of distributors were remaining out of the market.

The New York market for blackstrap was unchanged. Supply was still adequate. Demand remained moderate. The price was unchanged at 27c. per gallon.

Oxalic Acid—Trade was on the slow side last week, substantially unchanged from the situation reported throughout the last several months. Supply was ample. There were abundant stocks at producers' plants. Prices, long unchanged, were said to be quite stable.

Chief outlet in the current market was for use in radiator cleaning compounds. Laundries were taking up a considerable quantity of material for removal of rust from fabrics and for general use of the acid as a bleaching agent. Diverse outlets in the field of chemical manufacture were providing a small supplemental market.

Tariff Commission figures complete through July indicated that production of acid through the first seven calendar months totaled 13,977,596 pounds, compared to output of 23,205,949 pounds through entire year 1955. To August of this year, the greatest production was 2,366,574 pounds in March and the least, 1,628,360 pounds in June. The commission published no figure to indicate August output. That for July was put at 1,883,882 pounds.

Pentaerythritol—Volume of trade was off somewhat in November. Producers said the reasons were not clear. Underlying economic factors appeared to be sound enough to support heavier trade. It was probably too early for year-end inventory trimming to be reckoned as a factor, trade sources said, but scheduling patterns might have accounted for the decline. At any rate, the bright outlook for alkyd resins in general, particularly the plans of automotive manufacturers to produce more units, was expected to tone up this market in December.

Production in August amounted to 5,517,408 pounds, the Tariff Commission reported, bringing total output in the first eight months of calendar 1956 to 41,473,678 pounds, including a 1956 monthly high of 5,612,565 pounds in May and a monthly low for the year of 3,371,577 pounds in July. Total output in 1955 was 65,110,317 pounds.

Trichloroethylene—Sales volume, most of it accountable to demand for use in vapor metal degreasing, was holding up last week in what was described as a satisfactory manner.

Most recent figures available from the Tariff Commission put production in the month of August at 20,791,437 pounds, as compared to 21,824,536 pounds produced in the previous month. The cumulative total for 1956 through August amounted to 217,995,604 pounds. Total for the entire year 1955 was 302,064,015 pounds.

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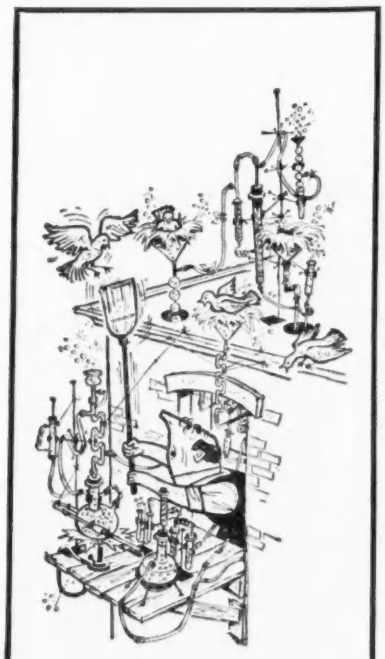

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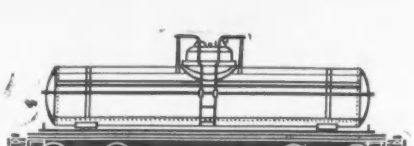

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Data Offered

Diamond Alkali Company, Cleveland, Ohio, has issued a brochure on its line of **"Chlorowax" chlorinated paraffins.** Contained in the thirty-six-page booklet is information on the applications of the liquid and resinous grades along with data on characteristics, properties, heat stability, specific gravity of solutions, solubility, viscosity and miscibility.

A revised, enlarged edition of its technical and engineering service bulletin "Water Analysis" (No. 11) has been issued by Solvay Process Division, Allied Chemical & Dye Corporation, 61 Broadway, New York 6. Copies of the 100-page bulletin, which contains separate sections on the analysis of various types of waters including municipal, railroad, swimming pool, polluted and stationary boiler water, are available on request to Solvay.

The **"1956 AZO Survey of Outside White House Paints"** is now available from American Zinc Sales Company, Box 327, Columbus 16, Ohio, or from any of the firm's offices or agents. First grade outside whites, white tinting bases, one-coaters and exterior primers produced by thirty paint manufacturers throughout the nation are included in this year's survey.

Welch, Holme & Clark Company, 1 Hudson street, New York 13, has published a new **data sheet on sesame oil USP.** The folder gives average characteristics, specifications and application information on the material.

CSMA Elects

—Continued from page 7

in the fields of public health and sanitation.

The outgoing president, Dr. Klarmann, will deliver his address at a general session on Wednesday morning. Among the other speakers at this meeting will be Joseph C. Harsch, a member of the Washington bureau for the *Christian Science Monitor.*

Luncheon speaker on December 5 will be John N. Hart, director of employee relations for B. F. Goodrich Company, Akron, Ohio.

Bulk of the meeting will be devoted to technical papers at sessions of CSMA's six divisions—aerosol; automotive; disinfectants and sanitizers; insecticides; soap, detergents and sanitary chemicals, and waxes and floor finishes.

The program today will be made up entirely of meetings of the association's various committees. The CSMA reception and cocktail party will take place on Wednesday night, December 5, and will be followed by the banquet.

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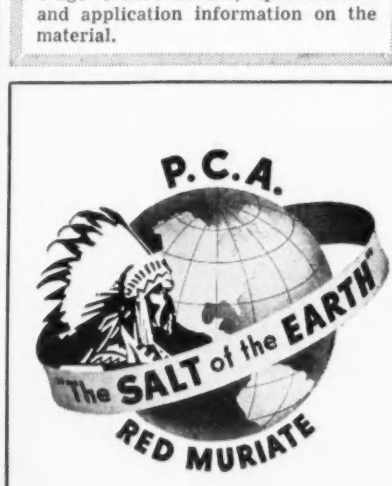

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Agricultural Chemicals

A slight show of activity was made in this market last week. It was primarily reported as production in anticipation of the early Southern shipping season. One dealer noted, however, that buying on the part of farmers might be delayed. The reasons offered were:—a) the heavy surplus in most agricultural chemicals might be shaded downward in the face of light buying, b) the draught last year left many farmers with a surplus of material and little money, and, c) the government farm bank program will bring fewer acres under cultivation. Reports have it that a considerable amount of nitrogen was tied up during the dock worker's strike. The material included a cargo of sodium nitrate from Chile and a good sized shipment of ammonium sulfate slated for export to the Far East.

A few price shifts were noted, primarily in the animal proteins market. Tankage prices out of Chicago and New York moved in different directions. The Chicago listing on a slightly firmer market advanced to $5.25 while the New York quote was dropped 25 cents to a $4.75 listing. The Chicago price for blood was declined 25 cents to $5 while the New York listing stood at the previous $5.

Pesticides were reportedly picking up strength on the advancing foreign market. Government and United Nations (WHO) buying were prime factors, it was noted. The only price shift noted in the pesticides market was that of p-dichlorobenzene. One producer dropped his listing 2½ cents to a 12 cent per pound quote. The previous listing, which had included delivery, was changed to f.o.b. works.

International Cooperation Administration has granted an authorization to Iran to purchase $15,000 of fertilizer from U. S. sources. The authorization includes purchase of $6,000 of nitrogenous fertilizers, $2,500 of potash fertilizers and $6,500 of phosphate and other fertilizers. Procurement will be carried out through the Federal Supply Service, General Services Administration.

Price Trends

Advanced

Tankage, Chicago, 25c. per unit ton.

Reduced

p-Dichlorobenzene, 2½c. per lb.
Blood, Chicago, 25c. per unit ton.
Tankage, New York, 25c. per unit ton.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Dec. 2, 1955
108.70	108.68	106.30	110.78

For Current Prices see Page 9

Animal and Plant Foods

Anhydrous Ammonia — Production of this material during September, according to the Department of Commerce, amounted to 257,014 short tons as compared with the 242,584 short tons produced in the month previous. Both figures stand higher than that of September, 1955, when 231,954 short tons was produced. Stocks at producing plants at the end of September were 125,054 short tons as compared with the end of August figure of 137,148 short tons.

Ammonium Nitrate—Production of original solution ammonium nitrate in September, according to the Department of Commerce, totalled 169,866 short tons as compared with the 174,021 short tons produced in August. The figure for September of the year previous was 149,982 short tons. Stocks at producing plants at the end of September amounted 234,979 short tons as compared with 221,780 short tons for August.

Fertilizer grade ammonium nitrate production totalled 138,086 short tons, a slightly lower figure than that of the 139,635 short tons produced the month previous. Both figures stand well over that of September, 1955, when 119,961 short tons was produced. Stocks at producing plants at the end of September amounted to 224,935 short tons as compared with 212,463 short tons on hand at the end of August.

Ammonium Sulfate—Production of this material during September amounted to 93,462 short tons, according to the Department of Commerce. The production figure for August was tallied at 81,576 short tons while that of September, 1955, totalled 77,133 short tons. Stocks at producing plants at the end of September amounted to 98,638 short tons as compared with the 75,770 short tons on hand at the end of August.

Animal Proteins—This market remained for the most part relatively listless, showing little activity and interest on the part of buyers. The only price advance was noted in Chicago, where tankage moved up 25c. to a $5.25 listing. However, this movement was offset in the overall market scene by the soft tone of the New York tankage market where a 25c. decline to $4.75 was reported. The only other price movement in the market was that of blood in Chicago where the listing declined 25c. to $5. New York blood stood at its previous $5.25 quote. Fishmeal and fishscrap dealers reported supplies limited and demand dull in this end of the season period. The listings continued at $140-$142 for fishmeal and $136-$138 for fishscrap.

Phosphates—Production of normal superphosphates during September amounted to 98,278 short tons as compared with the 88,073 produced during August and the 121,223 short tons produced in September of the previous year. Shipments for September totaled 51,287 short tons as compared with the 43,998 shipped in August and the 65,099 shipped in September of the year previous. Stocks on hand at the beginning of September amounted to 213,232 short tons as compared with the 211,534 on hand at the beginning of August and the 196,462 on hand at the beginning of September, 1955. Stocks on hand at the end of September amounted to 209,925 short tons compared with the 213,232 srort tons in stock at the end of August and the 202,339 short tons in stock at the end of September, 1955.

Potash Muriate—Market conditions for this agricultural chemical remained pretty much at previous levels of activity. Producers noted that a heavy shipment of material shipped to Japan late in the fall helped to relieve the market somewhat from its overstocked position. However, on the whole, the potash muriate market continued to show heavy stocks and little movement.

Production in Europe, domestic dealers said, has pretty well saturated that market, thus limiting the potential of an export market.

Pesticides Output

Following are production statistics reported by the Tariff Commission representing the number of pounds of certain pesticides produced in September, 1956, and corresponding data for the previous month.

	August	September
DDT	12,137,578	11,911632
2,4-D*	1,447,560	2,317,615
Ester & salts	625,659	1,609,714
Acid equivalent	459,730	1,141,828
BHC	7,682,872	6,164,005
Gamma isomer	1,322,010	1,040,016
Tetramethylthiuram sulfide	.....	276,794
2,4,5-T	253,758	410,283

* Includes 2,4-D acid produced, separated and consumed in plant in the manufacture of its derivatives.

Pesticides

p-Dichlorobenzene—A producer reported a price shift for this seasonal pesticide, effective November 15, 1956. The new price listing for carload or truckloads quantities in 200 pound fiber drums was changed from 14½c. per pound (delivered) to 12c. per pound, f.o.b. works. The shift at this period when the material, which is used primarily in mothballs, is amidst its seasonal period.

DDT—Dealers and producers reported here last week that the foreign market for this material continued to show good movement and growth. Both production and sales appear to verify this, one producer said. United Nation and Government buying are reportedly prime factors in this development.

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Allied Chemical

Coal Chemicals

Producers representing a substantial fraction of domestic output last week advanced prices of crude creosote by 2 cents per gallon effective January 1. The same companies, effective the same date, increased quotations on industrial crude coaltar by 1.6 cents per gallon. Corresponding increases, amounting to 1.92 cents per gallon in the case of 80 percent solution, will apply on creosote solutions. Naphthalene crystal free refined creosote and refined industrial coaltar were not immediately affected, but upward revisions were expected by year's end. Importers of crude creosote had not moved yet but were discussing the advance with their foreign suppliers. They said prices on imported material would undoubtedly be adjusted to reflect changing domestic quotations.

Several trade sources saw the increase in creosote as ill timed in view of the impact of pentachlorophenol on this market. Others pointed out that creosote had not been advanced in more than three years and that increased cost of tar was putting a squeeze on creosote producers. More tar was being burned on the open hearth here, and the international situation was expected to reduce creosote imports if the fuel shortage in Europe becomes acute. Increased ocean freight rates, already a conspicuous factor, were expected to discourage further the trade in foreign material here.

A major producer advanced fumaric acid prices 1½c. per pound across the board effective immediately on spot and January 1 on contract.

A leading producer increased quotations effective January 1 on contract prices of 367 textile dyes, including 53 quoted in OPD. The company called attention to the fact that nearly all factors influencing cost of producing and delivering dyes had tended to increase costs in the past twelve months. Cited in particular were costs of labor, raw materials, research and technical services.

The American Iron and Steel Institute estimated that steel production would amount to 100.3 percent of theoretical capacity in the week ended December 2, equivalent to 2,469,000 tons of steel. That figure was compared to steel output of 2,463,000 tons in the previous week, 2,493,000 tons in the comparable week a month ago and 2,356,000 tons in the corresponding week one year ago.

Basic Products

Benzol—This market was notably strong last week, especially in terms of demand for immediate shipment. Many consumers, having depleted their stocks faster than they had anticipated following last summer's steel strike, were looking for material in excess of routine quotas already on order. Commitments were made for a substantial part of production scheduled in the first months of 1957.

The position was described as ideally balanced. Producers were able to move all available material without hard selling. Yet, consumers were able to satisfy their requirements by shopping about for extra supplies.

Coaltar—Producers representing a substantial fraction of total domestic output last week announced an increase effective January 1 on the bulk price of crude industrial material amounting to 1.6c. per gallon. Quotations will rise from 15.4c. to 17c. per gallon and result in corresponding increases in creosote solutions.

Quotations on refined industrial material were not immediately affected. Several producers were discussing a move here, too, and increases were anticipated late in December.

Following last summer's steel strike, one company acted to offset increased steel costs by raising drum prices on refined industrial material from 26½c. to 30½c. per gallon on carlots and from 28½c. to 33½c. per gallon on less carlots, but retained its 16½c. per gallon price on tanklots unchanged. Another major producer announced a new schedule effective immediately on August 21 on spot and October 1 on contract listing tanklots at 20½c. per gallon, carlots at 35c. per gallon and less carlots at 39c. per gallon.

Creosote—A major producer announced November 27 that effective January 1 the company's price for AWPA grade No. 1 creosote will be advanced by 2c. per gallon and its price for coaltar for creosote coaltar solutions will be advanced by 1.6c. per gallon.

The move had gathered momentum by week's end. A minor producer went along with the increase at once. Another leader in the industry joined the advance November 29. Others, still discussing the matter, were inclined to go along.

Several trade sources said that the increase was badly timed, in view of the competition from pentachlorophenol and other materials used in treatment of wood for preservation. Others pointed out that creosote prices had not been advanced in more than three years and that higher tar prices were putting a squeeze on creosote producers.

Supply was still quite long. However, increasing amounts were being burned in open hearth furnaces. Trade sources pointed out that the tense situation in the Middle East might be expected to bring relief in the form of curtailed imports. Europeans burned a great deal of creosote for fuel during World War II and might be forced to do it again if supply channels were choked off long enough. Steep increases in ocean freight rates, already a fact, were also counted on to discourage imports.

A buying rush was anticipated from now until January 1, reflecting efforts to build stocks at the old, lower prices.

Treatment of railroad crossties was expected to pick up early in the new year. This outlet accounted for about 80% of the current market. Treatment of round stock, poles and pilings, accounting for most of the balance of this market, was steady.

Creosote in bulk quotations were slated to rise from 22c. to 24c. per gallon.

With tar up from 15.4c. to 17c. per gallon, 80% solution will increase from 20.68c. to 22.6c. per gallon. Other quotations will work out to 21.9c. per gallon for 70% solution, 21.2c. per gallon for 60% solution and 20.5c. per gallon for 50% solution.

Import prices were not immediately affected, but traders said that prices for foreign material would undoubtedly move in reflection of domestic price changes.

Naphthalene—Over-all market position was unchanged last week. Supply was plentiful. Domestic output, coming on in heavy volume, was moving fairly well, as general industrial activity held to high levels. Imported material continued to come in at US ports in substantial volume on contract, but the spot market for imported naphthalene was dead.

Dyes

One of the leading dyes producers announced last week price increases of about 18 percent on contract prices of 367 textile dyes effective January 1. The company pointed out that nearly every factor reckoned in cost of production and delivery of dyes had increased during the past twelve months. Mentioned in particular as higher cost factors were those of raw materials, labor, research and technical services.

Among the items affected, some 53 were

PriceTrends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Dec. 2, 1955
115.56	115.56	115.56	114.60

For Current Prices see Page 9

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending Dec. 2 was as follows:—

Ammonia liquor	lbs.	960,830
Ammonium sulfate	lbs.	40,912,747
Benzol	gals.	3,657,352
Coaltar	gals.	17,976,813
Creosote	gals.	697,376
Naphthalene, crude	lbs.	3,889,810
Pyridine	lbs.	13,948
Toluol	gals.	805,857
Xylol	gals.	232,459

Coal Chemicals

Included in OPD prices current. With prices before and after January 1 and Color Index or prototype numbers indicated, they were:

No.	Dye	Contract Prices Per Pound Previous	January 1
27	Fast light, orange 2G	$1.09	$1.29
31	Phloxine 2G	.89	1.05
36	Yellow 2G	1.00	1.18
40	Orange R extra, conc	1.29	1.52
57	Fuchsine 6B	1.31	1.55
79	Scarlet 2R	.98	1.16
151	Orange AD	.67	.79
161	Orange RR	.80	.94
176	Fast red A	1.18	1.39
185	Brilliant scarlet 3RN, conc.	1.02	1.20
202	Chrome blue black R, conc.	.91	1.07
216	Chrome red B	.92	1.09
234	Brown Y	1.08	1.27
246	Blue black, extra, conc.	1.16	1.37
275	Milling red 3R, conc.	1.62	1.91
326	Fast scarlet 4BNC	1.80	2.12
332	Bismark brown RX, conc., dustless	1.16	1.37
365	Brilliant yellow, conc.	3.11	3.67
382	Scarlet B	2.20	2.60
401	Diazo black BHD	.79	.93
406	Blue 2B, extra, conc.	1.30	1.53
420	Brown M	1.19	1.40
448	Red 4BX, conc.	1.43	1.69
518	Diamine sky blue FF, extra, conc.	1.65	1.95
593	Green BY, conc.	.87	1.03
596	Yellow brown K, extra	1.07	1.26
620	Yellow 2G	1.11	1.31
639	Fast yellow GG	1.97	2.32
640	Yellow XX	1.95	2.30
655	Yellow OX	2.24	2.64
657	Green V	2.31	2.73
662	Brilliant green G	3.07	3.62
667	Milling green 6B, conc.	4.05	4.78
671	Blue EG	1.68	1.98
698	Violet 6BN powder	1.91	2.25
749	Red BX	4.76	5.62
814	Yellow NN, conc.	3.11	3.67
841	Safranine GF, extra, conc.	3.48	4.11
922	Blue GXX	1.88	2.22
978	Black GXCF, conc.	.32	.38*
1054	Alizarine blue SAPX	3.20	3.78
1078	Alizarine green CG, extra	2.99	3.53
1085	Alizarine blue black B	2.56	3.02
1096	Golden orange GFD, single paste	2.19	2.58
1099	Dark blue BO, single paste	1.93	2.28
1106	Blue RS, double paste	3.26	3.85
1113	Blue BLFD, double paste	2.48	2.93
1150	Olive R, single paste	1.21	1.42
1151	Brown R, single paste	1.94	2.29
1217	Orange RD, double powder	3.94	4.60
p-4	Brown PG	2.54	3.00
p-14	Brown EB	1.83	2.16
73	Oil scarlet BL (oil soluble)	1.44**	1.70**

*(Carlots, minimum 30,000 pounds, will be 37½c. per pound.)

**(Prices apply on 100-pound drums.)

Intermediates

Fumaric Acid—A leading producer advanced prices across the board 1½c. per pound effective immediately on spot and January 1 on contract.

On a freight allowed basis, prices in the east rise to 27c. per pound in carlots and 28c. per pound in less carlots. Quotations were 1½c. per pound higher west of Denver.

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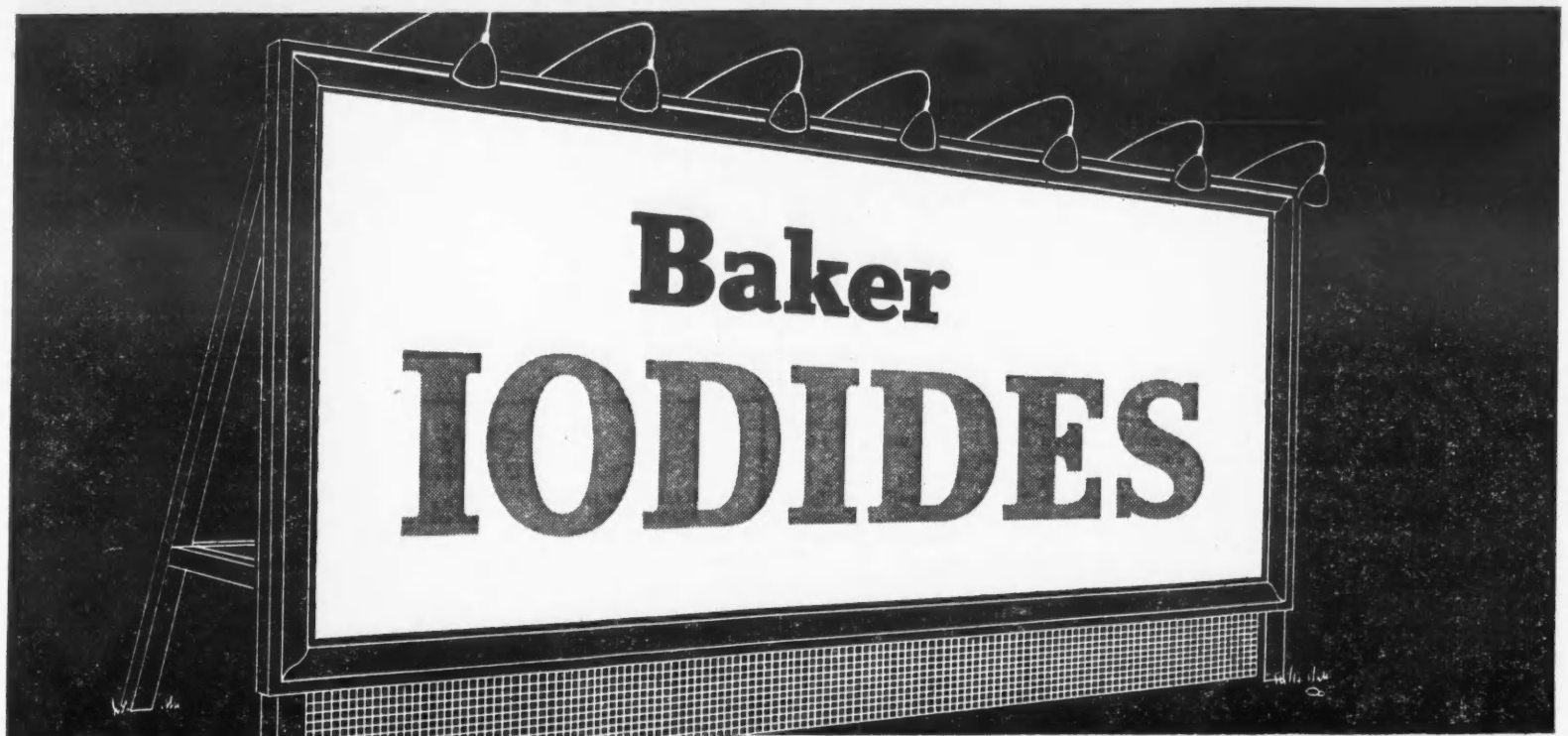

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Drugs, Fine Chemicals

An advance of 20 cents per pound was announced for gallic acid, NF, while technical pyrogallic acid and NF pyrogallol were increased 25 cents per pound. The announcement was made late last week by a major producer. Advances on lead acetate, NF crystals, ammonium sulfate, purified, and sodium chloride, USP, announced two weeks ago by another producer, went into effect on spot last Saturday. Increases on contract will be effective January 1. Pharmaceutical prices were firm and trading was active. Vitamins continued in good demand. Interest in domestic thiamin and ascorbic acid, already strong, was said to be increasing. It was felt that consumers were cognizant of the fact that due to the critical political situation foreign sources could be cut off.

Gum products were unchanged. Tragacanth was still in a very tight supply situation as was locust bean. Arabic was moderate and moving in fair business volume while Karaya needs were moderate and supplies were ample.

Consuming interest was noted for refined grades of salicylates used largely in the manufacture of aspirin and analgesics. Sales of quality bromide powders used medicinally as sedatives were steady at a low volume.

The production of sulfa drugs continued to show a good increase. Tariff Commission reports show that 286,854 pounds of bulk sulfa materials were produced in September as against an August figure of 236,774 pounds.

Lithium salts such as benzoate, bromide, citrate and salicylate were unchanged in price. Supplies were quite ample and demands were steady at a low volume. Lithium bromide and citrate sales levels were said to be down somewhat from those prevailing during the past summer.

Acetanilide—Tariff commission reports show that technical and USP production in September amounted to 377,875 pounds as against 114,800 pounds produced in August. Demand for USP material was routine and supplies were quite adequate to handle the current modest needs of the trade.

Acid Gallic—A producer announced a price increase of 20c. per pound on NF gallic acid last week. The new price on 1000 pounds lots was quoted at $2 per pound. Smaller lots ranged from $2.02 to $2.22 per pound. Increases were said to reflect increased costs of production and labor which could no longer be absorbed. Demands were good and supplies were ample.

Acid Pyrogallic—A major producer announced a price increase of 25c. per pound on technical pyrogallic acid last week. The new price on 100 pound drums is $3.17 per pound. NF pyrogallol was also advanced 25c. per pound, same quantity, to a new price of $3.50 per pound. Prices in this market have been unchanged for some time. It was said that the current increases reflected increased costs of production which could no longer be absorbed. Demands were moderate and supplies were ample to cover current trade needs.

Antibiotics—Prices continued firm on the major antibiotics and consumer interest was strong. Supplies were reported adequate by major sellers.

Tariff commission reports show that production of penicillin and salts (bulk only) amounted to 36,480,313 units in September as against an August figure of 38,667,992 units. Producers turned out 4,502,193 grams of streptomycin in September compared with 5,041,026 grams in August. Dihydrostreptomycin figures for September showed 18,346,103 grams produced and 18,457,951 grams in August.

Ascorbic Acid—Prices were firm and demands were very good. It was said that food processors continued to use large amounts of ascorbic for standardization of vitamin C content in their products. It was felt that the use of ascorbic acid with citrus bioflavonoids in cold preparations would be on the increase despite some recent negative reports on the efficacy of such remedies, as against several favorable clinical reports.

According to a report of the Tariff Commission, production of ascorbic acid and salts in September amounted to 332,704 pounds as compared to 175,851 pounds in August.

Aspirin—Producers reported demands continuing good with sizable orders being placed for aspirin to be used in analgesic and winter cold preparations. Scattered reports have indicated that sales volume was somewhat behind that recorded last year at this time.

Tariff commission reports show that production of acetylsalicylic acid in September amounted to 1,003,123 pounds compared with 1,045,624 pounds turned out in August.

Biotin—The price of vitamin H was unchanged at $10 per gram. Demands were moderate to good. It was pointed out that since biotin has definitely been established as a B-complex entity, pharmaceutical manufacturers of B-complex preparations favor its use in their products.

Bromides—The market for quality bromide salts such as ammonium, calcium, magnesium and sodium bromides, which find use medicinally as sedatives, was unchanged. Prices were firm and demands were steady at a low volume. Supplies were ample for the needs of the trade.

Calcium bromide in 100 pound lots was priced at 92c. per pound while magnesium bromide ranged from 90c. to $1 and ammonium bromide was quoted at 43c. per pound.

Calcium Phosphate—USP dibasic material in bags and carloads, freight equalized, was priced at $7.75 per hundred pounds. Less than carload quantities were priced at $8.50 per hundred pounds. Demand was routine and supplies were quite adequate to handle current trade needs.

Camphor—Keen competition between domestic and foreign sellers and natural and synthetic material continued to be dominant in this market. It was said that pharmaceutical demand now favors the Formosan product since it undersells the domestic and is available in one-quarter ounce tablet sizes. In 2,000 pound quantities, synthetic one-half ounce tablets are listed at 90c. per pound. Supplies were ample and moving in moderate business volume.

Carmine—NF carmine No. 40 continued in limited supply and prices were unchanged. The last increase in the price of this item came in July of this year when it was advanced from $14.40 to $16.80 per pound, in 100 pound lots. Less than 100 pound lots were reported ranging from $16.90 to $17.30.

Niacin—Demands were very good especially for the amide. It was said that the latter has been used in increasing amounts in recent years since there is no unpleasant flushing of the skin or itching connected with its use. Enrichment mixes and multivitamin preparations helped keep niacin production at a seasonal level. Census bureau reports revealed that 182,620 pounds of niacin and niacinamide were produced in September as against 204,710 pounds turned out in August.

Penicillin—Major producers reported bulk material moving in good business volume for advance and immediate sales. No price changes were indicated at this time. The market continued firm after price advances during October. Supplies were reported light in some quarters but orders from large consumers were being filled promptly. Penicillin G, which includes the potassium, procaine and sodium salts, was on firm ground and producers generally predicted another record production year would be achieved.

Procaine Hydrochloride—Supplies were reported good and demand was moderate. USP material, 1000 pound lots, freight allowed, was priced at $2.83 per pound while lots of 100 to 500 pounds ranged from $2.95 to $3.15. Prices have been unchanged since July, 1954.

Silver Proteinate—Prices quoted on 1000 ounce lots of mild protein, containing approximately twenty percent silver,

PriceTrends

Advanced

Acid, Gallic, NF, 20c. per lb.
Pyrogallic, tech., 25c. per lb.
Pyrogallol, NF, 25c. per lb.

Reduced

None.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Dec. 2, 1955
65.25	65.24	65.64	66.42

For Current Prices see Page 9

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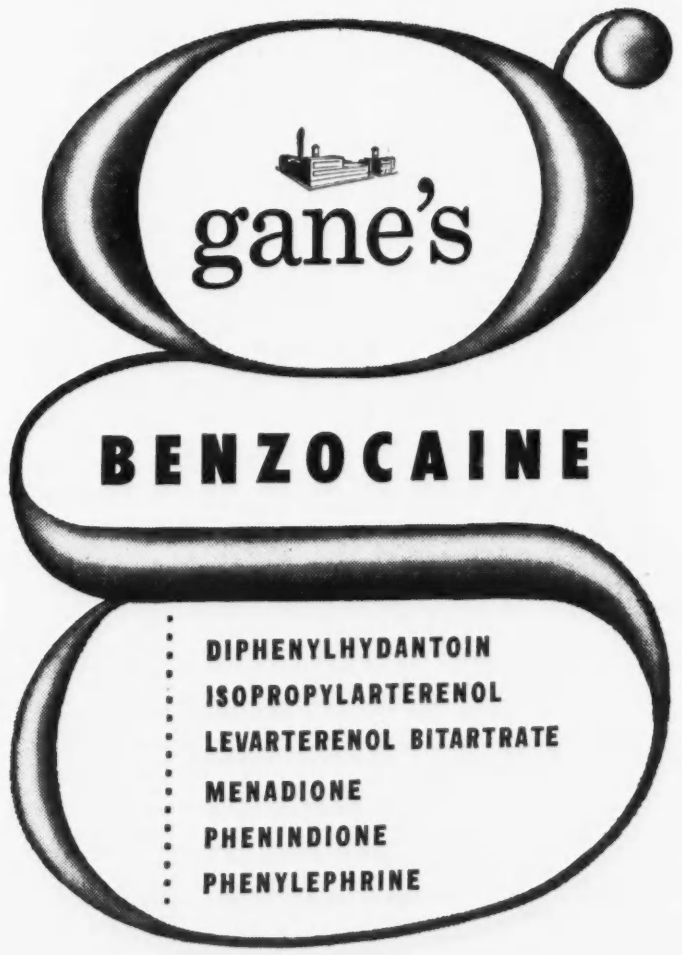

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Drugs, Fine Chemicals

were $1.15 per ounce. NF strong, which contains seven to eight percent silver but in ionic form which is more irritating, was priced at $1.10 per ounce on 1000 ounce lots. Demands were routine and sales at a low volume.

Thiamin—Prices on both mononitrate and hydrochloride were firmly quoted. It was pointed out that thiamin is one of the two vitamin products imported in recent years which has been on competitive levels with the domestic product. However interest in domestic thiamin and ascorbic acid has been steady and increased demand was probable, it was felt, since background thinking in the industry has centered on the critical world political situation and the possibility that foreign sources could be cut off.

Census bureau reports show that 15,169 pounds of thiamin derivatives were produced in September as against an August production of 17,339 pounds.

Viosterol—Sales were steady at a moderate volume and prices were unchanged as they have been for some time. This item in alcohol has been discontinued, it was said. Lots of viosteral in natural vegetable oil ranged from 2½c. to 4¾c. per million units. Material contains 400,000 to 1,000,000 D units per gram.

Yeast—Demand continued routine and prices were unchanged. This market has been substantially the same for quite a while. Prices have varied little in the past five years. Dry brewer's yeast, 50 International B units per gram was offered at 47c. per pound in hundred pound lots. Lots containing 90 International B units 47c., and 200 units 56c. Supplies were plentiful.

Botanicals

Botanicals buying was moderate last week as it has been for the past few months. Increased activity, normal for the fall months, has been less noticeable this year and even the critical Middle East situation has failed to result in substantial "scare" buying it was said.

Natural gum products continued moderate to strong with tragacanth ribbons in very tight supply as was locust bean. Stocks were being used without replacement. Weather conditions gave dealers cause for a pessimistic outlook. Interest in arabic was reported moderate in some quarters while other sources indicated that activity to date has been disappointing for this time of year.

Cascara bark and golden seal root, as has been noted many times, was scarce. Black haw bark, white pine bark and wild cherry bark were also light.

A combination of factors has caused supplies of important domestic botanicals to be scarce, the most important being the lack of sufficient labor to harvest a crop when it was available. At other times, crops have been spoiled due to adverse weather conditions.

Locust Bean Gum—Dealers reported supplies were light. Heavy rains were said to have spoiled the crop and it was not as yet possible to ascertain the extent of the damage. Prices were up over those quoted earlier in the fall and some trade sources said shortages were acute. Consuming interest was evident in some quarters. Prices ranged from 48c. to 50c. per pound.

Senna Leaves—Prices were unchanged and Alexandrian whole and half was priced at 19c. while siftings were listed at 17c. The price for Tinnevelly No. 1 was 16c., No. 2 was quoted at 13c. and No. 3 at 11c. per pound. There were no offers of siftings it was reported by one dealer. Buyer activity was moderate.

Tragacanth Gum—Supplies were light and prices were held at advances attained during the past six weeks. No. 1 ribbons were quoted ranging in price from $4.50 to $4.70 per pound. Few dealers ventured to guess when this situation would be alleviated. The past season's crop was reported spoiled to a large extent, in addition to which, there was the problem of shipping routes for material since the Suez Canal has been blocked. Freight rates were increased which could be reflected in the price of tragacanth to the trade, it was said.

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Scientific Information Parley Will Be Held in Washington

An international conference on scientific information will be held in Washington, D. C., in November, 1958, to provide a thorough discussion of present developments and research pertaining to organization and dissemination of scientific information, with special emphasis on storage and retrospective search.

The conference, which is to be sponsored by the National Science Foundation, the National Research Council, and the American Documentation Institute, is an attempt to overcome mounting difficulties in scientific communication resulting from the increasing tempo of research activity and the ensuing flood of scientific publications.

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Aspirin Milestone

—Continued from page 3

production has increased about 10 percent annually. This is well ahead of the 6 percent yearly increase.

By way of showing the magnitude of its achievement, Monsanto called attention to the fact that 100 million pounds of aspirin is enough to cure everybody in this country of 421 headaches.

Dr. Carroll A. Hochwalt, Monsanto vice-president for research and development, pointed out that aspirin sales continue to rise with the increase in population and with the discoveries that continue to come from research being carried on into the pharmacology and clinical use of the drug.

Questions About Aspirin's Mechanism

He indicated that there is still a good deal to be learned about how the compound works. These are some of the questions about aspirin's mechanism that Dr. Hochwalt thinks need to be answered:

- How does it do what it does for rheumatic and arthritic sufferers?
- Why does it reduce abnormal body temperatures while having no effect upon normal temperatures?
- Just what is the means by which aspirin succeeds in moderating pain?

"The answers to these questions are sure to come in time," Dr. Hochwalt declared, "and with them may come still more important applications for this cheapest, safest and most perennially durable of the genuine 'wonder' drugs."

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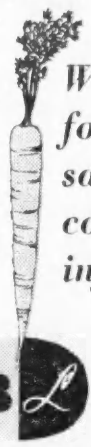

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86 bgs, R T French, Bombay
87 bgs, Otto Gerdau, Bombay
CHESTNUT EXTRACT—1,000 bgs, Barkey Importing Co, Genoa
CITRONELLA OIL—25 dms—Givaudan Corp, Keelung
25 dms, Ungerer & Co, Keelung
85 dms, Lo Curto & Funk, Keelung
40 dms, George Uhe Co, Keelung
35 dms, Keelung
COALTAR DYES—10 dms, C A Haynes, Rotterdam
COCONUT OIL—900 tons, E F Drew & Co, Cebu
465 tons, Cargill Inc, Manila
484 tons, Manila
CODLIVER OIL—490 dms, Arista Oil Products Co, Bergen
268 dms, Scandinavian Oil Co, Reykjavik
10 dms, Albumina Supply Co, Reykjavik
75 dms, Dyson Shipping Co, Reykjavik
170 tons, Dyson Shipping Co, Reykjavik
219 dms, Peder Devold Oil Co, Reykjavik
15 dms, Arista Oil Products Co, Reykjavik
10 dms, Frank Samuel & Co, Reykjavik
COPPER CYANIDE—60 dms, D Hauser, Hamburg
OXIDE, RED—9 dms, Hamburg
CORN STARCH—230 bgs, Universal Transcontinental Co, Rotterdam
500 bgs, Rotterdam
COTTON LINTERS—1,048 bls, Antwerp
CUTTLEFISH BONE—515 cs, E E Bier & Co, Cadiz
105 cs, J B Macedo, Cadiz
200 cs, Lisbon
DAMMAR GUM—50 cs, Archer Daniels Midland Co, Bangkok
256 bgs, S Wintebourne & Co, Singapore
28 bgs, Singapore
50 cs, Singapore
DEXTRIN—1,050 bgs, Guaranty Trust Co, Rotterdam
315 bgs, Rotterdam
DIALYZED IRON SOLUTION—1 cs, Amend Drug & Chemical Co, London
DIMENIDRINATE—2 kgs, Genoa
DINA ACID—2 dms, Hensel Bruckmann & Lorbacher, Bremen
DIVI DIVI—897 Seroons Curacao Trading Co, Ciudad Trujillo
EPHEDRINE ALKALOID, ANHYDROUS—5 cs, Biddle Sawyer Corp, Glasgow
ETHYLENE GLYCOL UNDECANE DICARBONATE—3 cs, Havre
FATTY ACID—25 dms, Fallek Products Co, Hamburg
500 bgs, Fallek Products Co, Bremen
FISHLIVER OIL—3 dms, J D Smith Interocean, Yokohama
FUEL OIL—74,977 bbls, New England Petroleum Corp, Punta Cardon
305,000 bbls, Esso Standard Oil Co, Aruba
99,048 bbls, Paragon Oil Co, Curacao
10,000 bbls, Asiatic Petroleum Corp, Curacao
79,000 bbls, Esso Export Corp, Aruba
GALLNUTS—186 bgs — Mallinckrodt Chemical Works, Lattakia
GALL, OX—3 dms, Merck & Co, Durban
GELATIN—34 bgs, Minerva Commercial Corp, Bremen
50 bgs, T M Duche & Sons, Rotterdam
300 bgs, Transatlantic Animal By Products Co, Rotterdam
10 dms, B Young & Co, London
GERANIUM OIL—4 dms, Antoine Chiris, Algiers
GLUE—161 bgs, T M Duche & Sons, Genoa
20 cs, M Corbett, Marseille
60 bgs, Jung Forwarding Co, London
GLYCERINE—269 tons, Procter & Gamble Co, Manila
GRAPHITE—3,504 bgs, Asbury Graphite Mills, Narvik
76 bgs, Solvay Process, Havre
GYPSUM—10,154 tons, U S Gypsum Co, Hantsport
H ACID—94 dms, Kaufman & Vinson, Genoa
HENNA LEAVES—105 bgs, S B Penick & Co, Alexandria
ICHTHAMOL—25 dms, Rohner Gehrig, Hamburg
JUNIPER BERRIES—267 bgs, Leghorn
KAOLIN—180 dms, E Fougera & Co, London
KARAYA GUM—67 bgs, Colony Import & Export Corp, Bombay
KOLA NUTS—100 bgs, D Steengrafe & Co, Kingston
200 bgs, J A Manton Co, Kingston
LABDANUM GUM—25 cs, Meer Corp, Cadiz
LAURIC ACID—150 dms, Procter & Gamble Co, Copenhagen
LICORICE ROOT—19 bgs, S B Penick & Co, Beirut
LINDANE—70 dms, Henley & Co, Hamburg
LITHOPONE—600 bgs, C J Osborn Co, Rotterdam
LOCUST BEAN GUM—400 bgs, Morningstar Nicol, Genoa
560 bgs, Stein Hall & Co, Genoa
200 bgs, J L Quesada, Barcelona
900 bgs, J L Quesada, Tarragona
LOGWOOD EXTRACT—28 cks, American Dyewood Co, Kingston
MACE—7 cs, Knickerbocker Mills, Rotterdam
7 cs, R J Spitz, Rotterdam
24 cs, Karl H. Landes & E Balint, Hamburg
13 cs, Rotterdam
MARJORAM—68 bgs, Callao
MENTHOL—25 cs, Magnus Mabee & Reynard, Kobe
MENUKELIVER OIL—5 dms, Consumers Import Co, Yokohama
MERCURIC OXIDE—20 bbls, Rijeka
MERCURY—250 flks, Cadiz
MOLASSES—550 tons, W R Grace & Co, Salaverry
MUCIC ACID—2 bbls, Hensel Bruckmann & Lorbacher, Bremen
MUSTARD SEED—250 bgs, Berns & Koppstein, Copenhagen
1,960 bgs, R T French, Copenhagen
200 bgs, C Gulden, Copenhagen
MYROBALANS—1,454 bgs, Barkey Importing Co, Bombay
NAPHTHALENE—1,486 bgs, American Cyanamid Co, Liverpool
972 bgs, Koppers Co, Liverpool
676 bgs, American Cyanamid Co, London
1,433 bgs, Rotterdam
NAPHTHOL—1 dm, Hensel Bruckmann & Lorbacher, Bremen
NUTMEG—51 bgs, East India Trading Co, Rotterdam
28 bgs, Knickerbocker Mills, Rotterdam
911 bgs, Rotterdam
40 bls, Rotterdam
70 bgs, Singapore
ORRIS ROOT—7 bgs, Leghorn
PAPRIKA—700 bgs, A A Sayia, Alicante
100 bgs, Van Loan & Co, Alicante
450 bgs, H Marmorek & Son, Alicante
400 bgs, Wurm Bros, Alicante
356 bgs, National City Bank, Trieste
100 bgs, H Schlicting, Alicante
725 bgs, J Weinstein, Alicante
550 bgs, Alicante
500 bgs, Rijeka
PATCHOULI OIL—10 cs, Estate Trading Co, Penang
5 cs, Internatio Rotterdam, Penang
PEATMOSS—1,700 bls, Premier Peatmoss Corp, Gdynia
PEPPER, BLACK—400 bgs, E H Simpson & Co, Singapore
70 bgs, C Czarinkow, Singapore
120 bgs, Borneo Sumatra Trading Co, Singapore
490 bgs, Singapore
RED—428 bgs, Manufacturers Trust Co, Alicante
1,611 bgs, Brilliant Spanish Paprika Inc, Alicante
200 bgs, E E Bier & Co, Alicante
260 bgs, Otto Gerdau, Kingston
80 bgs, Kellys America Ltd, Kingston
WHITE—70 bgs, Polak Trading Co, Singapore
371 bgs, Singapore
PETROLEUM, CRUDE—100,457 bbls, Metropolitan Petroleum Corp, Bachaquero
113,159 bbls, American Bitumuls & Asphalt Co, Maracaibo
202,997 bbls, Esso Standard Oil Co, Puerto La Cruz
103,809 bbls, Cities Service Oil Co, La Salina
213,357 bbls, Socony Mobil Oil Co, Puerto La Cruz
118,614 bbls, Esso Standard Oil Co, La Salina
209,916 bbls, Hess Inc, Maracaibo
POLLACKLIVER OIL—150 dms, Interocean Chemical & Minerals Corp, Yokohama
POLYVINYL ACETATE—20 bbls, Lloyd Associates, Bremen
POPPY SEED—100 bgs, Louis Furth, Rotterdam
100 bgs, P H Petry, Rotterdam
200 bgs, A G Dunn, Rotterdam
750 bgs, Rotterdam
PSYLLIUM SEED HUSKS—232 bgs, Prentiss Drug & Chemical Co, Bombay
PYRITES—236 cks, American Metal Co, Lexioes
QUEBRACHO EXTRACT—2,500 bgs, International Products Corp, Buenos Aires
1,093 bgs, River Plate Corp, Buenos Aires
100 bgs, J E Bernard, Glasgow

RED IRON OXIDE—870 bgs, Reichard Coulston, Malaga
50 bbls, Whittaker Clark & Daniels, Malaga
ROSEMARY LEAVES—140 bls, Lisbon
RUTILE SAND—600 bgs, International Titanium Corp, Brisbane
7,600 bgs, Lo Curto & Funk, Brisbane
RUTIN—17 cs, Parke Davis & Co, Sydney
SAGE LEAVES—191 bls, Manufacturers Trust Co, Hamburg
500 bls, Trieste
SAGO FLOUR—549 bgs, Chartered Bank of India, Singapore
SEEDLAC—250 bgs, Colony Import & Export Corp, Bangkok
SENNA LEAVES—39 bls, Irving Trust Co, Port Sudan
SODIUM ACETATE, ANHYDROUS—20 bgs, D Hauser, Genoa
ALGINATE—20 cs, T M Duche & Sons, Yokohama
ARSENATE—150 dms, Orlex Dyes & Chemicals, Marseille
PERBORATE TETRAHYDRATE — 200 bgs, Bremen
PHOSPHATE—150 cks, Rotterdam
STANNIC SULFIDE—2 cs, City Chemical Corp, London
SUMAC EXTRACT—30 cks, J E Bernard, Glasgow
TALC—2,805 bgs, Charles Mathieu, Genoa
TAPIOCA FLOUR—4,050 bgs, Internatio Rotterdam, Bangkok
7,400 bgs Stein Hall & Co, Bangkok
4,740 bgs, Morningstar Nicol, Bangkok
TETRAALYKLDITHIOPHOSPHATE—20 cks, Plant Products Corp, Rotterdam
TRICHLOROETHYLENE—410 dms, Miny Corp, Venice
32½ dms, Venice
TUMERIC—112 bgs, Mincing Trading Corp, Kingston
VANILLA BEANS—1 cs, First National Boston, London
VETIVER OIL—5 dms, Norda Essential Oil & Chemical Co, Port Au Prince
WATTLE BARK—1,123 bls, Hammond & Carpenter, Durban
575 bls, M S Kattenhorn & Co, East London
WAX, SYNTHETIC—3,752 bgs, Moore & Munger, Durban
WHITING—1,000 bgs, Whittaker Clark & Daniels, London
WOOL GREASE—30 dms, Robinson Wagner Inc, Genoa
37 bbls, Venice
ZIRCON SAND—2,400 bgs, International Titanium Corp, Brisbane
3,600 bgs, Lo Curto & Funk, Brisbane
500 bgs, C H Powell, Brisbane

Los Angeles

COPRA—939 tons, Procter & Gamble Co, Cebu
5,309 bgs, Balfour Guthrie & Co, Manila
500 tons, American Trust Co, Cebu
2,000 bgs, Pacific Vegetable Oil Corp, Manila
COPPER SULFATE—362 bgs, Western Chemical & Manufacturing Co, Antwerp
EARTH COLORS—1,750 bgs, Castelazo & Associates, Bremen
MOLASSES—1,748 tons, National Molasses Co, Manzanillo
PEATMOSS—1,000 lbs, H V Nootbaar, Hamburg
500 bls, Atkins Kroll & Co, Hamburg
PEPPER—67 bgs, Hismoco American Co, Acapulco
1,000 cs, J Berber, Salina Cruz
PETROLEUM, CRUDE—11,882 tons, Richfield Oil Co, Vancouver
41,333 tons, Wilshire Oil Co, Kuwait
17,110 tons, The Texas Co, Trinidad
SEEDLAC—200 bgs, Bank of California, Bangkok
SESAME SEED—350 bgs, W R Grace & Co, Corinto
800 bgs, H M Newhall & Co, Corinto
325 bgs, H C Ireland & Co, Corinto

Philadelphia

FUEL OIL — 138,000 bbls, Esso Standard Oil Co, Aruba
GYPSUM—11,931 tons, National Gypsum Co, Halifax
PETROLEUM, CRUDE — 116,352 bbls, Atlantic Refining Co, Pamatacual
100,854 bbls, Atlantic Refining Co, La Salina
250,028 bbls, Atlantic Refining Co, Puerto La Cruz
113,113 bbls, Socony Mobil Oil Co, Amuay Bay
239,025 bbls, Socony Mobil Oil Co, Covenas
150,235 bbls, Sohio Petroleum Co, Punta Cardon
372,985 bbls, Gulf Oil Corp, Puerto La Cruz

San Francisco

CALCIUM CHLORIDE—500 bgs, Mattoon & Co, Antwerp
NITRATE—20,000 bgs, Wilson & Geo Meyer & Co, Heroya
CASEIN—500 bgs, Royal Bank of Canada, Buenos Aires
200 bgs, J R Spellacy, Buenos Aires
360 bgs, Eugene Lang, Buenos Aires
500 bgs, Borden Co, Buenos Aires
CELERY SEED—87 bgs, Hismoco American Co, Bombay
COALTAR DERIVATIVES—75 dms, Gallard Schlesinger, Antwerp
COPRA—500 tons, Cargill Inc, Castanas
500 tons, Cargill Inc, Legaspi
500 tons, Cargill Inc, Siain
500 tons, Cargill Inc, Mauban
CORN STARCH—1,680 bgs, East Asiatic Co, Antwerp
FORMIC ACID—18 djms, Antwerp
PEPPER, BLACK—70 bgs, Borneo Sumatra Trading Co, Singapore
RED—15 bgs, S L Jones & Co, Kobe
POPPY SEED—100 bgs, Ziel & Co, Copenhagen
QUEBRACHO EXTRACT—100 bgs, Limhama
SODIUM GLUTAMATE, MONO—100 cs, Ajinomoto Co, Yokohama
TANKAGE—603 bgs, International Packers Ltd, Buenos Aires
TAPIOCA FLOUR—200 bgs, Stein Hall & Co, Santos
UREA—15,000 bgs, Wilson & Geo Meyer & Co, Heroya
WHITING—3,000 bgs, N H Weitzner, Antwerp
ZINC CHLORIDE—25 dms, L H Butcher Co, Antwerp
SULFATE—28 bbls, McCormick & Baxter, Gothenburg

Bids Wanted

Hydrochloric acid, 100,035 lbs., inv. 496, Dec. 5, Navy Purchasing Office, Navy Dept., Naval Supply Center, Norfolk, Va.

Magnesium, 13,000 lbs, inv. 65, Dec. 4, Supply Officer, Naval Ammunition Depot, Navy Dept., Crane, Ind.

Paint, 9,000 gals, deck paint, type A, inv. 805, Dec. 7, small business only, 101,500 lbs, titanium dioxide pigment, inv. 817, Dec. 7, 46,405 gals, interior, semigloss enamel, 9,444 gals, ready mixed, stencil flat paint, 7,055 gals, ready mixed, enamel undercoater primer, inv. 833, Dec. 12, 7,040 gals, ready mixed, stencil, flat paint, 3,740 gals, shellac varnish, inv. 811, Dec. 12, 452 gals, water resisting, spar varnish paint, 7,299 gals, heat resisting enamel, 1,055 gals, stencil paint, type II, inv. 810, small business only, Dec. 10, 4,048 gals, aluminum paint, inv. 813, Dec. 6, Gen. Stores Supply Office, Navy Dept, 700 Robbins Ave., Phila, 11, Pa.

Sodium metasilicate, 40,000 lbs., pentahydrate, as required during a 6-month period, inv. NY-IJO 69908, Dec. 10, Gen. Services Adm., Region 2, Business Service Center, 250 Hudson St., N. Y. 13, N. Y.

Vitro Corp. Will Engineer An Italian Test Reactor

Vitro Corporation of America's engineering division has received a contract for engineering services on a CP-5 type nuclear reactor research facility to be built in Milan, Italy.

The reactor will be a heavy water-type plant using enriched uranium as fuel. It will be of the same type as the CP-5 reactor operated by the Atomic Energy Commission and Argonne National Laboratory at Lemont, Ill.

The contract, announced by Richard A. North, division general manager, was awarded by Comitato Nazionale per Le Ricerche Nucleari, Italy's equivalent to the United States Atomic Energy Commission.

The engineering division, originally organized to handle pioneer design for the Atomic Energy Commission's gaseous diffusion plant at Oak Ridge, Tenn., specializes in design of technical processing plants and atomic installations and development of specialized equipment for chemical processing.

Borden Names Manager

Parker B. Smith, formerly assistant to Harry D. Wilson, a vice-president of the chemical division of Borden Company, New York, has been named general manager of the division's international department. Mr. Smith will have executive responsibility for the division's export sales, foreign licensing activities, and manufacturing operations in Australia, Brazil, Canada, England, Colombia, Mexico and the Philippine Islands.

Pharmaceutical Industry's

—*Continued from page 7*

tion of Automation to the Pharmaceutical Industry."

Tuesday afternoon, "Diseases of the Heart," a panel session to be moderated by Dr. Charles F. Wilkinson, jr., professor and chairman, department of medicine, New York University Post-Graduate Medical School.

Wednesday morning, December 12—Thomas J. Winn, vice-president, Charles Pfizer & Co., and president, J. B. Roerig & Co., will be in charge of session entitled "Environment of our Industrial Economy." Participating in the program will be August Ihlfeld, president, Savings Banks Trust Company, New York, whose discussion of "The Financial Scence" will cover the tight money market and what it means to American business. Leo Cherne, executive director, Research Institute of America, will discuss "The International Scene," and Ernest K. Lindley, director, Washington Bureau, "Newsweek" magazine, "The Washington Scene." Herman Hickman, football authority, will address a luncheon meeting.

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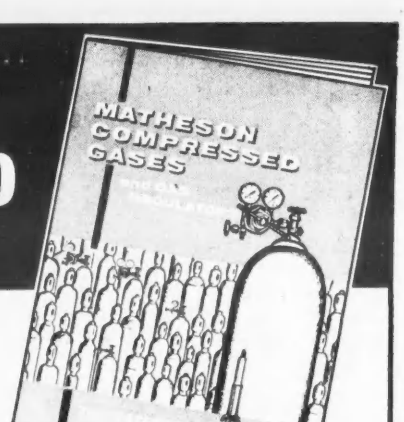

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Chemicals Prices Rise Less Than Others

—Continued from page 5

the day-to-day discoveries of new medicinals with a wider range of therapeutic values are the main causatives for the decline in this field.

Fertilizer Materials—The price fall in recent months, particularly in the nitrogenates, which are down almost 12 percent since April of this year is primarily attributable to a combination of oversupply and severe competition.

Plastics Materials—A 6 percent decline since the close of 1955 reflects increased competition in the polystyrenes, the general purpose phenolics and the vinyls, as well as some lower priced import offerings of the latter.

Increased Efficiency Noted

Many of the industry economies were effected through the increased efficiency of new plants, improved chemical processing technics, better materials handling, and other advances in operational methodology.

However, the resulting productivity increases, which proved so important in combatting higher costs, have been accompanied both at home and abroad by more intensified market competition which appears to be at the same time both the cause and effect of increasing operational efficiency and economy, it was pointed out.

Accordingly, average chemical wholesale prices have changed comparatively little since the 1947-49 base period. As a matter of fact, since mid-1953, chemical prices have averaged a rise of less than one percent, while over the same period, prices for all products except farm and food advanced 7 percent.

While short-term diverse price movements for individual segments of the chemical industry may continue, the overall level for chemicals as a group is expected to move upward in the last calendar quarter of 1956.

This is already apparent for many individual chemical items which, because of price-cost squeezes, have shown some price increase in October.

Heavy pressures from rising labor and raw material costs, increased charges for containers and transportation, higher interest rates for money, and advancing costs of capital outlays and research reflect the main reasons for these increases.

The extent to which a combination of intense competition and increased productivity in the chemical industry may offset chemical cost advances and subsequent upward price pressures remains to be seen, BDSA pointed out.

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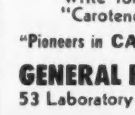

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Essential Oils, Aromatics

The market continued some good activity last week, though the seasonal buying for the most part has begun to slacken off. However, dealers noted that the Middle East situation continues to affect the market and some material remains in tight position because of the heavy crop damage done early this year. A number of materials showed price movement. Two oils reversing earlier positions were the mints. Peppermint oil, in redistilled grades, advanced 5 cents per pound while spearmint oil climbed 30 cents per pound. Peppermint oil in its regular grades continued to flounder in a vascillating situation. The reasons are oversupply and a quantity of poor quality material placed in the market at the beginning of the new-crop period. Mace and nutmeg remained the most stable factors in the market, showing very tight supply and good demand. Dealers noted, however, that the high price of nutmeg oil has brought a tapering off of inquiries.

The lime oils continued to move upward, firming again last week in listing. The current quote is $4.75 per pound for both Mexican and West Indian material. Tight supply continues to be the major contributing factor. Formosan citronella (Java-type) was another oil that reversed its position. Originally very easy as the result of loosening shipping prices, the material shifted and is now listing $1.50 per pound, 15 cents per pound higher than previously. Some dealers attribute this to the Suez crisis and suggest that as soon as supply routes become clear, the situation will revert to its former position.

Patchouli reflected a tightening position in a 50 cents per pound price climb to a $6 spot listing. The only decreases were noted in sage and vetiver oils. Dalmatian sage oil dropped 20 cents per pound to a $4.30 listing; Haitian vetiver oil fell 35 cents to a $9.25 per pound quote.

The aromatic chemicals showed some good activity last week, though in this market also, the signs of the decline of the seasonal market are easily recognized. Some strength is expected to continue in aromatic chemicals, however, as the result of the need for replacements of essential oils held up by the Suez crisis.

PriceTrends

Advanced

Oil, chenopodium, 25c. per lb.
Citronella, Formosan, 15c. per lb.
Lime, 25c. per lb.
Peppermint, redistilled, 5c. per lb.
Spearmint, 30c. per lb.
Patchouli, 50c. per lb.
Sandalwood, 15c. per lb.
Lime, 25c. per lb.

Reduced

Oil, cedarwood, 10c. per lb.
Sage, Dalmatian, 20c. per lb.
Vetiver, Haitian, 35c. per lb.
Vanilla beans, Bourbon, 25c. per lb.

Comparative Price Indexes

(100 - 1949 average)

Last week	Prev. week	Last month	Dec. 2, 1955
138.57	138.45	137.85	134.84

For Current Prices see Page 9

Essential Oils

Chenopodium—This material continued to advance on spot and in the shipping market dealers here reported last week. The current listing for chenopodium (wormseed) oil is $4.50 per pound or 25c. higher than the previous listing. The new price incorporates two advances of the past week. At the beginning of the period, the price moved up 10c. and then, toward the end, it climbed another 15c. per pound. For a time, some dealers here noted, it was believed that the effects of this year's poor crop would be offset by a reasonably good carryover of oil from last year's season. Late advices from source, however, indicate that the supply position is extremely firm, which in turn is confirmed by the fact that there are comparatively few offerings coming through. Demand, it was noted, is attributed to the limited size of this year's new crop, rather than to any development in demand. Queries, it was said, are not overly extensive.

Citronella—Formosan (Java-type) citronella oil firmed slightly on spot last week, dealers here reported, to a $1.50 per pound inside listing. The quote previously had been 15c. lighter. The undertone of the market is said to continue very strong at source and some dealers noted that there were few if any offerings out of Formosa. While the strength to a degree is attributed to the international situation, the firmer trend in citronella developed a week or ten days before the Middle East crisis arose.

Grapefruit—This market, following the pattern of a post-seasonally waning citrus oil market declined slightly on spot two weeks ago, dealers here reported. The new listing, $1.65 per pound, is 5c. less than previously quoted. Though never as active as some of the other citrus oils, grapefruit oil had a relatively good summer of sales it was reported.

Lime—This oil advanced once again on spot dealers reported. The current advance, 25c. per pound, is one of a series of scattered firming movements that has taken place since the end of the season. The material is the only citrus oil that has continued consistently to show strength since the decline of the seasonal market. A number of factors have contributed to the oil's present strength. One has been the lightness of the crop, another has been the Mexican government regulations concerning exports.

Ocotea Cymbarum—This commodity continued unmoved from its previous position. The listing remained at the 50c.-60c. per pound level. Dealer interest was reported as unimproved. Some little while back exporters and producers from source noted that the present low price level was tending to strangle the ocotea cymbarum industry. Interest, despite this low price, has continued to lag and no relief appears on the horizon for this oil.

Peppermint—This material continued to vascillate on the spot scene last week, dealers here reported. The market condition is resultant of a number of factors. Primary, of course, was the extensive production of the newcrop. This was what brought the original listing of the material down to its present level. The second factor to influence the peppermint market, and probably the factor responsible for the present vascillation, is the variance in the quality of the newcrop. Reports from source noted early that there were quantities of poor material in the new material. When peppermint arrived on the market, this inferior oil acted as a further depressant to the market. At present, the listing for good material stands at a fairly stable level, while other material continues to move up and back according to evaluation. The market is not expected to stabilize to any great degree until some of the material is siphoned off and until the quality level of the whole is brought sharply up, one dealer suggested.

Spearmint—This oil climbed 30c. per pound last week to a $4.40 per pound listing, dealers here reported. The reversal was brought about, it was reported, by the completion of distillation for this year and the movement toward buying into reserves. The peppermint market, on the other hand, continues to offer an unstable picture. Responsible, according to dealers, were the lots of poor quality material introduced into the spot market. However, another important factor was the heavy crop produced this year. This was also true of spearmint which, though it may reverse its position in the face of constant demands, shouldn't rise out of sight at any time because of the plentitude of supply.

Vetiver—Haitian vetiver oil, which has been showing a soft tone for some months, relaxed further on spot last week, dealers here noted. The current listing of $9.25 per pound, is 35c. less than that of the week previous.

Aromatic Chemicals

Methyl Salicylate—Production of this synthetic wintergreen oil totalled 3,120,000 pounds in 1955, the United Sttes Tariff Commission has reported. Total material sold during 1955 amounted to 3,391,000 pounds at $1,619,000. The unit value was 48c. per pound.

Hydroxycitronellal—Production of this material in 1955, according to the Tariff Commission, amounted to 116,000 pounds. Sales of hydroxycitronellal during 1955 were computed at 123,000 pounds valued

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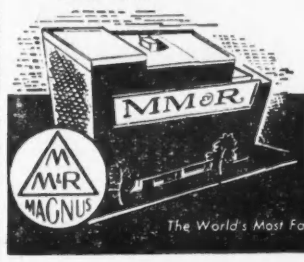

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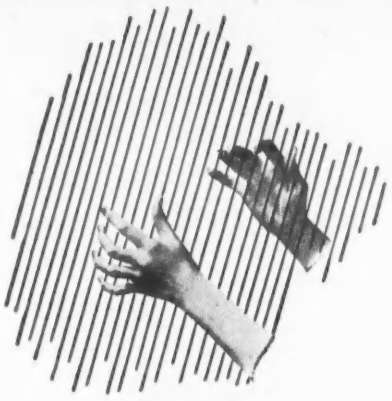

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Seeds and Spices

A major dealer here noted at the beginning of the week that despite the week-long waterfront strike, the market had actually lost ground. Early in the preceding week, a few minor transactions had taken place for spot pepper at prices slightly above those of the week previous.

Overseas cables, it was said, reflected a generally steady market. Sarawak offers were few, and almost level with Lampong and Malabar, indicating reduced supplies and increased European interest, the latter spurred by the sense of urgency imparted by the continuing Near Eastern crisis and the accompanying move to ration gas and oil.

Nutmegs—This market continued to show excellent strength last week, dealers here reported. Speculative activity here and abroad grabbed the few offerings made. Heavy jumps between trades were not considered unusual. Reports from source noted that imports this year will run well ahead of the average quantity consumed. However, Granada production has been reduced to approximately 20 percent of normal and is presently said to be out of stock. Supplies in Indonesia have long been committed and the next crop of importance is not until March/April. The better part of consuming needs for the next six months must be drawn out of New York stocks. Undoubtedly, the current price level will cut heavily into consumption, but it will take time before this cut into the market here.

Mace—All grades of this material continued to follow the pattern set by nutmegs, though at a more moderate pace. Dealers concluded that though supply for many grades was lighter, demand was not as heavy. However, the situation could easily switch.

Paprika—The Spanish market continued to show great strength last week, dealers here on spot noted. Shipments continue staggered and slow and the quantity offered at any level is reportedly light. Current reports noted that the spoilage responsible for the present situation occurred because of spoilage to material brought on by rain in October. Chilean and Yugoslavian materials are enjoying a broader demand where quality and lack of heat are not primary considerations.

Vanilla Beans—Bourbon quality vanilla beans declined again on spot last week, dealers here reported. The current listing of $7.25 per pound, is 25c. less than the quote of the week previous. The earlier figure also was a marked decline from listings of a month ago. Dealers noted that the current situation is resultant of new-crop influences.

The new crop of bourbon beans will be a little late this year. Normally the bulk of the crop is ready for shipment in April and May, whereas this year it is not expected to be ready until late May or June.

Of considerable interest is the increase in importations of vanilla beans into this country. Prior to this year importations of vanilla had been fairly regular, from year to year, whereas the consumption of extract had been steadily increasing. During the period January 1 to October 1 of this year, bean imports amounted to 550 tons whereas only 430 tons of beans were imported into the United States during the entirety of 1955.

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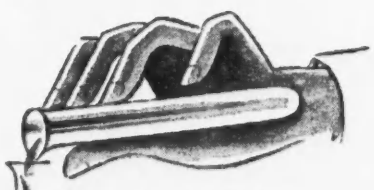

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Textile, Leather Chemicals

Business in textile and leather chemicals continued to move in good volume last week. Consumers also increased interest in replacements for 1957 needs. Pricewise the majority of materials remained unchanged and steady. Some easiness was noted in flake egg albumin and quotations dropped 4 cents per pound, while other egg derivatives were held at former levels. In the chemical group, bichromates were in active request for prompt needs, with contracts booked for delivery during the first quarter next year at current prices. Trading in potato starch was reported moderate for prompt needs and deliveries against former orders continued in active request. Corn starch also was in good demand for prompt delivery. Trading in Siamese tapioca flour was spotty, but arrivals against contracts moved steadily into consuming channels. High grades of Siamese grades were unchanged and steady. Medium grades were still available at the recent decline, but competition between shippers was reported less keen. Interest in Brazilian flour continued nil and offers for shipment attracted little attention.

Tanners showed more interest in tanning material replacements. Trading of late has improved for prompt shipment. Primary markets continued unchanged and steady. Imports of myrobalans have been delayed from two to three weeks since the Suez Canal has been closed and may affect users with low inventories.

PriceTrends

Advanced

Oil, castor, sulfonated, ¾c. to 1c. per lb.

Reduced

None.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Dec. 2, 1955
108.55	108.55	108.55	105.33

For Current Prices see Page 9

Chemicals

Bichromates — Production of sodium bichromate and chromate in September totaled 10,263 tons, against 10,344 tons in August and 9,982 tons, September last year according to the Census Bureau. Stocks at producing plants amounted to 7,992 tons September 30 and 7,581 tons, August 31. Market conditions were steady and unchanged. Prices were firm. Business was good and inquiry was active for next year requirements.

Sodium Acetate — Good demand continued for delivery during the balance of the year. Prices were without change.

Sodium Hydrosulfite—Firm tone prevailed in this material. Demand was reported fair for prompt delivery. Prices were unchanged and firm.

Sulfonated Oils—Further advances of ¾c. to 1c. per pound took place in sulfonated castor oil, due to higher cost of oil. Other varieties were unchanged.

Sizing Materials

Albumin Blood—Trading continued active for spot and later requirements. Market was unchanged and steady. Prices were held at 65c. to $1 per pound, according to quantity.

Corn Dextrin—Consumers absorbed sizable quantities for immediate and later delivery. All grades were well held at prevailing quotations. Gum was held at $9.28 per 100 pounds, paper bags, carlots, New York delivery; light canary, $9.02; dark canary, $9.12, and white, $8.86, same basis. Smaller lots were 15c. per 100 pounds higher.

Corn Starch—Good volume of trading was reported for prompt delivery. Prices were without change and steady. Pearl was quoted at $7.27 per 100 pounds, paper bags, carlots, New Yorrk, and powder $7.39, same basis. Less carlots were 15c. per 100 pounds higher. Visible corn supply was increased 5,113,000 bushels to 74,660,000 pounds for the week ended November 23, compared with 41,363,000 bushels for the corresponding week last year, it was reported by the Chicago Board of Trade.

Egg Albumin—An easier tone developed and flake was reduced 4c. per pound. Other grades were unchanged. Technical continued in limited supply and was strongly held at $1.08 to $1.10 per pound, spot as to quantity. Flake was lower at $1.65 to $1.67 per pound and powder, $1.69 to $1.71 per pound, spot, according to quantity. Business continued quite active.

Egg Yolk—While flake albumin was lower, this market remained firm at unchanged quotations. Yolk ranged from $1.07 to $1.09 per pound, spot, depending upon quantity.

Potato Starch—This market remained steady at prevailing quotations. Moderate volume of business was reported for prompt delivery, with active inquiry for 1957 requirements. Offers for future delivery were not liberal and confined to prompt shipment. Carlots were maintained at 6¼c. per pound, f.o.b. mills and ¼c. less for delivery south of Virginia. Stocks on spot were unchanged at 8¼c. to 9½c. per pound, exwarehouse, as to quantity. Idaho remained steady at 6¼c., carlots f.o.b. mills and ¾c. less for delivery to eastern points.

Sago Flour—Delivery from primary sources has been delayed by the closing of the Suez Canal as steamers were taking the longer route around cape of Good Hope. Replacements were recently reduced to 5.45c. to 5¾c. per pound, carlots, exdock, according to quality. The spot market was quiet and unchanged. Raw flour was quoted at 7c. to 7¼c. per pound, and refined, 8¼c. to 8¾c., exwarehouse, according to quantity.

Tapioca Flour—Arrivals of Siamese flour were readily absorbed against former contracts. Trading was moderate, and confined to Siamese grades. Competition in medium grades for shipment has been materially reduced with offers quotably unchanged at 5¼c. to 5.35c. per pound, carlots exdock, prompt. A grade was unchanged at 5.65c., carlots, same basis, prompt and forward shipment. AAA remained steady around 6.6c., same basis. Some high grade Brazilian was available around 10c., carlots, exdock, with buyers showing little interest.

Tanning Materials

Canadian leather footwear production declined approximately 45 percent in July 1956 from June 1956, but was about 13 percent higher than for July 1955. Output amounted to 2,409,543 pairs in July, a decrease of 1,091,149 pairs from the June 1956 production of 3,500,692 pairs. In July 1955, 2,098,539 pairs were produced.

For the 7 months ended July 31, output was 24,544,614 pairs, compared with 21,820,875 pairs in the corresponding period of 1955. Footwear produced with leather soles amounted to 937,938 pairs in July and 9,194,098 pairs for the 7 months' period.

Chestnut Extract—This market was reported quiet, but steady. Replacements were maintained at former levels. Solid extract guaranteed 60 percent was quoted at 9⅛c. per pound, carlots, exdock, plus duty, prompt shipment and powdered, 70 percent, 10⅝c., same basis.

Cutch—This market remained firm, reflecting sold up production for prompt shipment. Futures were maintained at 8½c. per pound, carlots, exdock, plus duty.

Mangrove Bark — Replacements continued steady at unchanged quotations. Business was reported light, chiefly for nearby shipment. African bark was quoted at $66 per ton, exdock, prompt shipment; Colombian, $58 per ton, and Ecuadorian, $55, same basis.

Quebracho Extract—Consuming interest was reported improved with trading fairly active at prevailing quotations. Market was more stable as price concessions have been withdrawn. Solid ordinary guaranteed 63 percent tannin was quoted at 11 21/32c. per pound, exdock, plus duty and clarified 64 percent 12 23/64c., same basis.

Valonia — Conditions in this market were reported unchanged and steady. All grades were well held at prevailing quotations. Beards were quoted at $86 per ton, carlots, exdock; cups, $64 per ton, same basis, and extract, 9¾c. per pound, exdock, plus duty.

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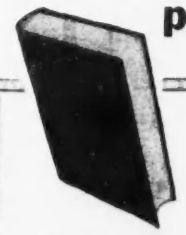

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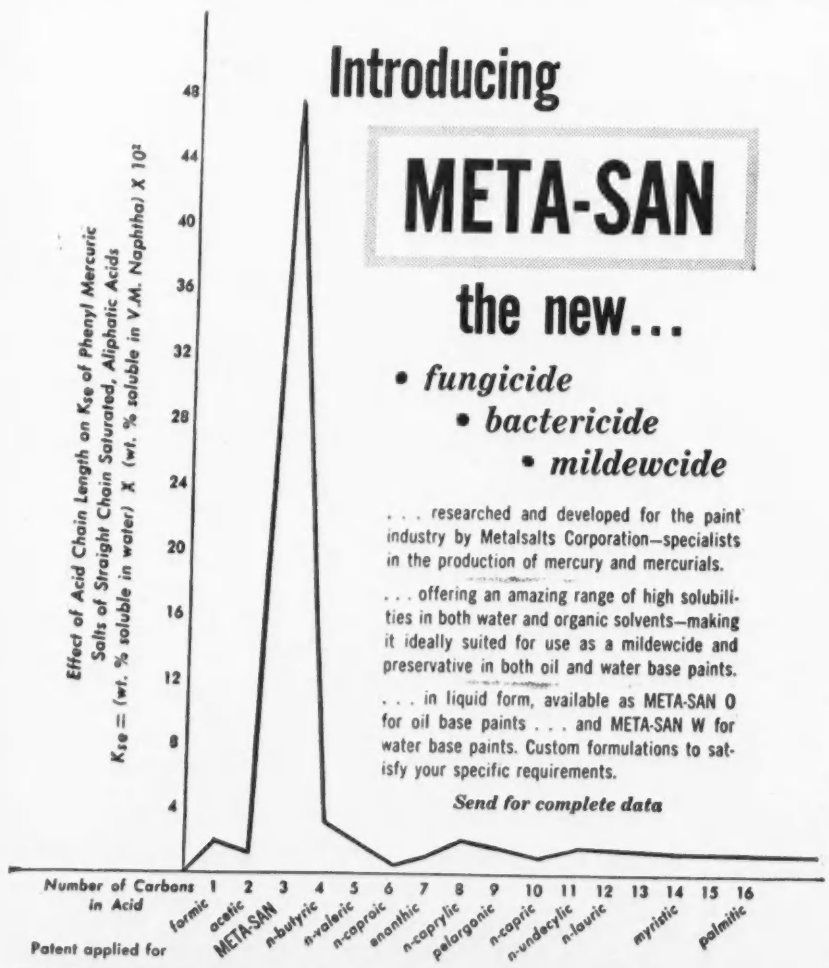

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Coatings Materials

Advances in chrome colors of 1c. to 2c. per pound, announced previously by a major producer, became effective last Friday. Another maker is slated to post similar revisions on December 10. Green chrome was hiked 2c. per pound in the chemically pure grade, while other grades were moved up 1c. per pound. Orange, yellow and zinc chrome were each advanced 1½c. per pound. These increases are expected to be made industrywide with the start of the first quarter. Meanwhile, no further word has been received on a projected 2c. per pound increase in iron blues, which has been reported definitely pending, but for which an effective date has not been set.

Buying interest in oxide pigments continued on a routine basis last week, reflecting the calmer tone that has prevailed in the metals market since the Suez situation began to stabilize. Quotations on copper, zinc and lead oxides were all steady and unchanged.

The casein market has registered a 1½c. decline, neutralizing a recent advance. Demand for prompt shipment was described as reasonably good at an offering price of 24c. per pound. Only sparse interest was displayed in January shipment, for which dealers were offering material at 23¼c. per pound on the regular duty paid, New York delivered basis. The price of native shellac held unchanged here despite a slightly weaker market abroad. The undertone, though, was said to be weak. Bleached shellac moved steadily in normal volume, with quotations, reduced 2c. per pound on October 15, stable and unchanged.

The post-seasonal decline in demand for plasticizers, dry colors and synthetic resins, was only moderately in evidence last week. In fact, for some producers the pace of business was as brisk as during previous weeks. In the present month, however, demand for these materials is expected to ease off.

In a late development last Friday a producer of cobalt oxide announced that the price would be reduced, effective December 1, to $1.73-$1.78 per pound. The previous price was $1.90-$1.96 per pound.

Price Trends

Advanced
None.

Reduced
Casein, Arg., 1½c. per lb.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Dec. 2, 1955
100.30	100.30	100.14	97.46

For Current Prices see Page 9

Prime Pigments

Cadmium Colors—The new mercury lithopones continue to register increased consumer acceptance. Althought these materials have taken a good share of the lithopone market, the pinch on selenium is still acute enough to keep all selenide lithopones moving promptly into consumer channels.

Chrome—Production of chrome green (chrome yellow and iron blue) in September was 350 short tons, according to a report of the Department of Commerce. Production during the previous month amounted to 512 short tons. Chrome oxide green production in September was 684 short tons, as compared with 748 short tons during August. Output of chrome yellow and orange was 1,807 short tons, a substantial decline from the 2,196 short tons reported for the previous month. Molybdate chrome orange production came to 422 short tons, as against 600 short tons in August. Zinc yellow (zinc chromate) production in September was 639 short tons, as compared with 443 short tons the previous month.

Cobalt Oxide—This material was reduced by a major producer to $1.73-$1.78 per pound, effective last Saturday. The material was previously quoted at $1.90-$1.60 per pound. Announcement of the change was made last Friday.

Dry Colors—Consuming interest is described as normal for this time of the year, slightly below the first month of the quarter but still fairly active. Prices of synthetic and natural iron oxides were reported steady, with a firm undertone. All materials are in adequate supply.

Iron Blue—A 2c. per pound advance is reported to be forthcoming. Informed opinion favors the view that the advances will be put into effect at the first of the year. At least one producer has made it known that the increase will definitely be made. In last week's trading, the market showed good seasonal strength. Supplies were plentiful.

Lakes and Toners—Announcements on first quarter price revisions should be forthcoming within the week. A number of changes are expected to be made in connection with cost increases recently absorbed. The actual volume of sales during the present season is running about even with last year. Dollar volume is said to be a little higher.

Lead Pigments—Demand was reported at a routine pace, reflecting a similar tone in the lead market. Quotations have been unchanged for an unusually long time, the last revision having been made in the middle of the second quarter. Supplies are in good balance with the rate of demand.

Lacquer Materials

Conditions in this market were unchanged. Good demand was noted for all materials, but loose suppplies of dioctyl phthalate made the price position of that item rather weak. Marginal firms were reported to be offering material in some instances at 2c. below the established price. Informed observers believe that the difficulty with this market is that while it has expanded rapidly, the number of producers has expanded even more rapidly.

Citrates have encountered good demand this season, particularly in new outlets. Supplies were adequate. Quotations of diethyl and dimethyl phthalate were firmly held at listings advanced ½c. per pound on October 1.

Synthetic Resins

The following figures show production in pounds for September and list August's figures for comparison, as reported by the Tariff Commission:—

Production

	†August	†September
Phenolic and other tar acid resins—		
Laminating resins	8,529,474	9,612,245
Adhesive resins	3,414,006	4,300,979
Protective coating resins, modified, unmodified, except by rosin	2,361,017	2,175,912
Urea and melamine resins:—		
Adhesive resins	9,718,299	9,742,925
Protective coating resins, straight, modified	2,816,943	2,951,392
Styrene resins:—		
Protective coating resins, straight, modified	6,400,596	6,736,933
Vinyl resins:—		
Total, all types	*57,121,141	60,236,772
Alkyd resins for protective coatings:—		
Phthalic anhydride types, unmodified	22,198,384	19,863,470
Modified with tar acids, rosin and/or other materials, except styrene	5,729,714	5,136,569
Polybasic acid types except phthalic:—		
Unmodified	273,925	313,327
Modified with tar acids, rosin and/or other materials, except styrene	962,723	1,036,244
Rosin modifications for protective coatings:—		
Rosin, rosin esters unmodified (ester gums, esterfied with glycerol)	1,241,221	899,222
esterfied with other alcohols (pentaerythritol, glycols, etc.)	1,538,509	1,020,766
Rosin, rosin esters, modified:—		
Modification with phenolic and other tar acid resins	2,233,688	1,767,864
Modifications with maleic and fumaric acids	2,805,923	2,722,678
All other modifications.	*3,578,601	2,966,238
Coumarone—indene and petroleum polymer resins	22,755,324	20,512,939
Miscellaneous synthetic plastics and resins materials:—		
Protective coating resins (including epichlorohodrin, acrylic polyester, silicone and other resins)	1,033,078	1,054,665

† Partly estimated.
* Revised.

Natural Resins

Copal Gum—The tieup at the Suez Canal has had no effect on this market. According to dealers here, even when material starts arriving from around the Cape, the cost differential is likely to be negligible and unreflected in prices. Meanwhile, dealers' stocks are said to be sufficient to take care of all demand.

Dammar Gum—Supplies were reported sufficient against a routine flow of demand.

Coatings Materials

Prices established a few weeks back were steady. The closing of the Suez Canal is expected to have no discernible effect on supplies or prices. Quotations on Singapore materials are 44½-46c. per pound for No. 1 and 31½-33c. per pound for No. 2.

Shellac—The primary market for native shellac was weaker last week, but locally a normal level of demand kept the market in balance. Prices were unchanged, but in response to the weakness at source, the undertone was unsteady. Bleached shellac is encountering normal demand, with quotations, reduced 2c. per pound October 15, holding steady. In the view of a major dealer here, the immediate outlook for bleached shellac is good, but the long term trend is a gradual downward movement.

Miscellaneous

Casein—Offering prices were slightly easier last week, ranging about 1½c. per pound below the previous week. Demand for prompt shipment was moderately good, at 24c. per pound. Only sparse interest was displayed in January shipment, for which dealers were offering material at 23¼c. per pound on a duty paid, New York delivered basis.

According to one dealer here, the trend toward use of soya protein is still a major factor in the market. In his view this trend reflects growing disfavor among consumers with price instability in the casein market.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. Nov. 23	Mon. Nov. 26	Tues. Nov. 27	Wed. Nov. 28	Thur. Nov. 29
Drums—					
K	$8.18	...	...	...	...
M	8.19§	$8.22	...	...	...
N	...	8.20	...	$8.25	$8.20
WG	8.42	8.45	...	8.45	8.50
WW	8.865§	8.86§	...	8.90	9.05
Bags—					
G	...	8.10	...	...	...
M	8.18	8.10	...	...	...
WG	8.50	8.30	...	...	...
WW	...	8.60	...	...	...

Tankcars (for week ended Nov. 23)—
M or better, $7.77§

Sales, USDA

2,365*	522*	679*	261*	634*

New York
(per 100 lbs., c.l., Friday)
B through M, $9.30; N, $9.40; WG, $9.60; WW, $9.10

Turpentine, Gum

USDA, per gal. 7.2 lbs.)

Price	.57	...	.578§	.575	...
Sales	12,000¶	...	14,000¶	4,000¶	...

New York, Friday, per gal. 7 lbs., tankcars, 67½c., l.c.l., 78c.

* Drums equivalent. ¶ Gallons. § Average price.

Magnesium of Higher Purity Offered in Volume by Dow

Higher-purity magnesium pig and ingot destined for use in production of priority defense metals, now is available in volume from Dow Chemical Company.

Dow is producing the purer grades of the light metal at its magnesium plant in Freeport, Tex., and at the government-owned plant it operates at nearby Velasco.

Much of the new supply—available in purities above 99.9 percent—is used in producing titanium, zirconium, berylium and uranium. Dow is nearing completion of tests on another grade which company officials say should be even more suitable for production of these metals.

The two plants have for years produced magnesium of about 99.8 percent purity—ample for all structural applications and all but a few chemical ones.

Now, using the same electrolytic method, Dow is making the metal in a purity ranging from 99.8 percent to more than 99.9. Raw materials are sea water and oyster sheils.

Rosin Prices

—*Continued from page 5*

dwindling supplies of first growth long leaf pine stumps.

"Little change is likely in domestic consumption of rosin or turpentine. In general, both domestically and abroad, industrial use of turpentine has been increasing. At the same time, requirements for on-the-job thinning of oil base paints and varnishes have been reduced as a result of inroads made by water based paints. Domestic consumption of rosin is expected to increase this year. The long time trend of rosin use is up, because of steady expansion of requirements for paper sizing, among other reasons.

"A 15-20 percent increase in turpentine exports appears likely in view of the 20-25 percent reduction in Western European production. Not much change is expected in 1956 rosin exports. Barring major hostilities or prolonged interruption of shipping, increased exports from China and Mexico, along with liquidation of the British stockpile (accumulated during the Korean War) should largely offset greatly reduced supplies from Western Europe.

"The present strong market situation continues the trend which began more than three years ago. Last year, no loans were made on rosin or turpentine and this year, under the 1956 program, no turpentine and only 117 drums of rosin have been pledged.

"During the past two years, CCC stocks have been drawn on for more than 24,000 barrels of turpentine and 149,000 drums of rosin to fill the gap between requirements and commercially-held supplies. Before the end of the crop year, much of the 33,000 barrels of turpentine and 522,000 drums of rosin remaining in CCC stocks is likely to move into consumption."

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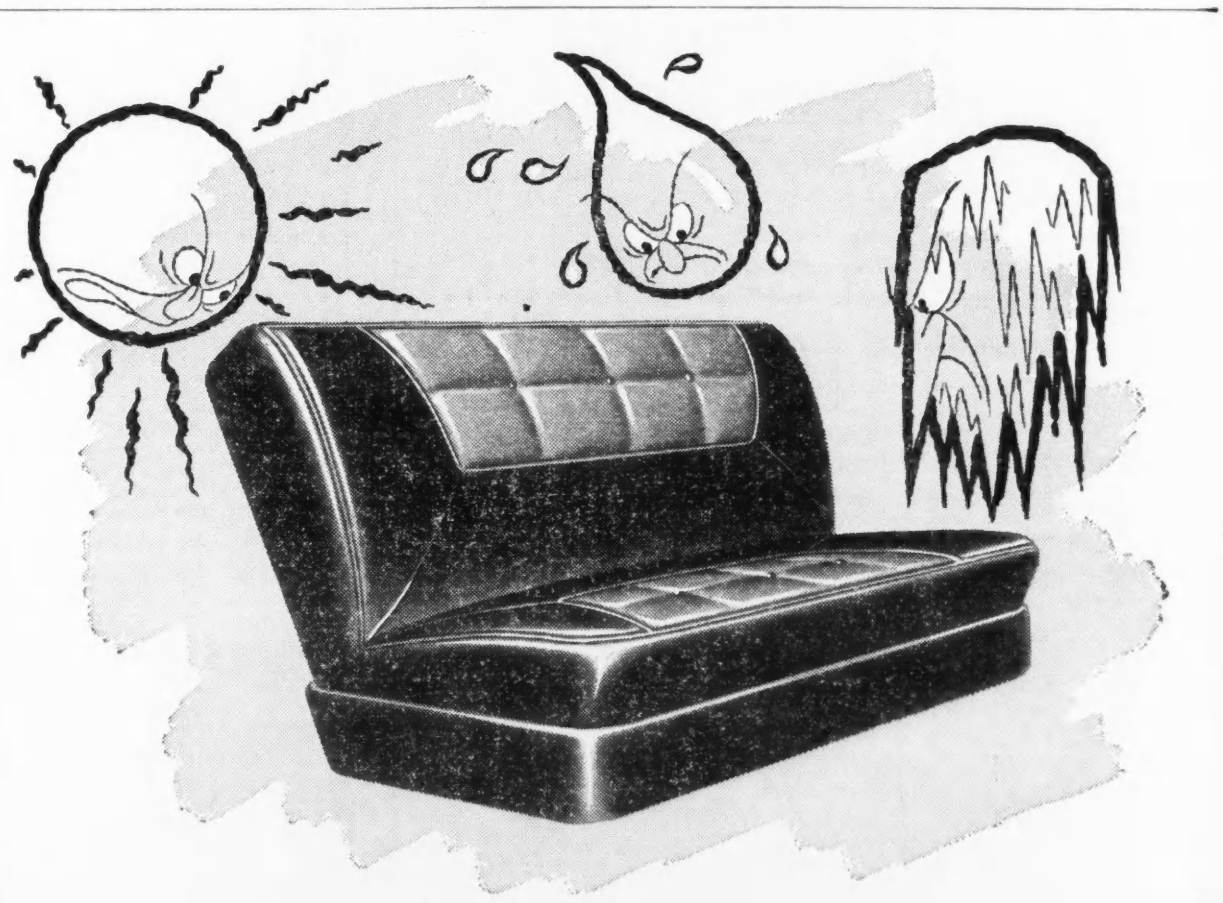

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Grade	INDONEX Plasticizers 633½	634½	637½
Sp. Gr. (60°F)	.994	.995	.997
Flash °F	465	475	515
Pour °F	30	35	55
Viscosity 210°F, Saybolt Sec.	107	137	307
Viscosity Index	—130	—130	—108
Distn. (1mm) °F 5%	362	366	412
30%	431	435	514
Evapn. Loss mg/10g. (1 hr. oven 100°C)	5	5	4

INFORMATION

For additional information on INDONEX Plasticizers, write for INDONEX Plasticizer Technical Bulletin. Your request will be given prompt attention.

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Jobs & People

American Cyanamid Company, New York—**Dr. Eugene Allen** has become a group leader in the dyes research section of Cyanamid's Bound Brook, N. J., laboratories.

Anderson Chemical Company, Weston, Mich.—**Thomas E. Leonard** and **Russell S. Towers** have joined Anderson's research staff to work on organ-metallic compounds.

Barrett Division, Allied Chemical & Dye Corporation, New York—**Jack Chamberlain** of Barrett has been elected mayor of Madison Township in Middlesex County, N. J.

Godfrey L. Cabot, Inc., Boston, Mass.—**Paul P. Foley** has been named assistant general traffic manager of Cabot.

Diamond Alkali Company, Cleveland, Ohio—**Charles L. Fuelling** has been added to the sales staff of Diamond's chromium chemicals division and will make his headquarters in Painesville, Ohio.

Emery Industries, Inc., Cincinnati, Ohio—**John V. Killheffer, jr.**, has joined the Emery research staff as a member of the plasticizer group in its process research section.

Escambia Chemical Corporation, New York—**Robert G. Reed** has been appointed business manager of Escambia's research division.

General Aniline & Film Corporation, New York—**Arthur Komorowski** has been named production manager of GAF's new acetylene chemical products plant at Calvert City, Ky.

W. R. Grace & Co., New York—**Frank A. Connell** has joined the marketing department of Grace's polymer chemicals division as a technical representative for its new linear polyolefin resins.

John W. Masury & Son, Inc., Baltimore, Md.—**John H. Mathis** has been named by Masury to manage a district made up of Pittsburgh, Pa., and the western and northwestern counties of Pennsylvania.

Monsanto Chemical Company, St. Louis, Mo.— **L. L. Baseler** has been made assistant director of marketing for Monsanto's overseas division. **Kenneth R. Stelloh** has been appointed a director of sales for the division. **Arthur M. Moore** has been named manager of the division's New York office, succeeding Mr. Stelloh.

Naugatuck Chemical Division, United States Rubber Company, Naugatuck, Conn.—**Walter J. Geldard** has become marketing coordinator for Naugatuck Chemical.

Chas. Pfizer & Co., Brooklyn, N. Y. —**John E. McKeen**, Pfizer president and chairman, has been named a member of the corporation of the Polytechnic Institute of Brooklyn, the college at which he earned his chemical engineering degree thirty years ago.

Shell Oil Company, New York—**A. G. Schei**, Shell Oil treasurer, has been named vice - president of finance, effective January 1, succeeding **J. H. White** who will retire at the end of the year after thirty-one years of service.

Strong, Cobb & Co., Cleveland, Ohio—**Arthur P. Varley** has joined Strong, Cobb as production planning and packaging manager.

U. S. Industrial Chemicals Company, a division of National Distillers Products Corporation, New York—**James G. Couch** has been made manager of the engineering section of USI's production department.

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PRESIDENTIAL AID: W. Cooper Willits, named assistant to the president of Pennsylvania Salt Manufacturing Company, Philadelphia.

Thibaut & Walker Appoints

Thibaut & Walker Co., Newark, N. J., has announced the appointment of Edwin Edelstein as technical director. Mr. Edelstein was formerly with the Cleveland, Ohio, branch of Benjamin Moore Paint Company, Newport Industries, Onyx Oil and Resins, and Sillers Paint Company.

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Premium Gasoline Grade Is Introduced by Texaco

A new premium gasoline was introduced by Texas Company, New York, on Saturday. The new higher octane gasoline, called "Texaco Sky Chief Su-preme," will supplant the company's present premium grade gasoline in specific markets throughout the country.

A major advance in the gasoline is its improved volatility, Texaco said. The new premium, like its predecessor, contains "Petrox," Texaco's all-petroleum additive.

It was introduced Saturday in metropolitan New York, Long Island, Westchester County, all of New Jersey, Boston, Providence, R. I., New Haven, Hartford and New London, Conn., Philadelphia, Pittsburgh, Pa., Norfolk, Va., Miami, Fla., Mobile, Ala., Houston and Port Arthur, Tex. By December 15 the new gasoline will be available in 20 additional marketing areas.

Great Lakes

—Continued from page 5

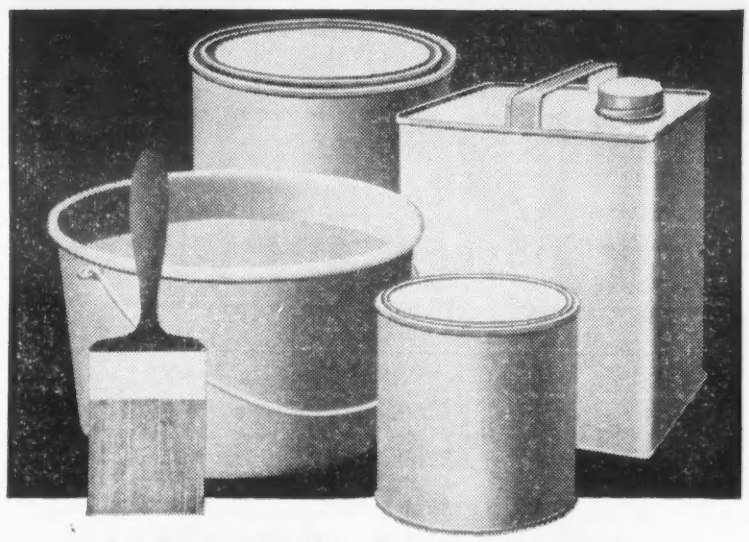
Sir Robert McAlpine & Sons Ltd., and Clarke, Chapman & Co., Ltd.

Construction of a plant at Newcastle, England, will begin in the spring of 1957, with full production scheduled for late 1958. Initial capacity of the plant will be 15,000 long tons per year, with priority given to atomic energy requirements.

Nuclear-grade graphite is produced from petroleum coke and is used as a moderator in atomic reactors. Anglo-Great Lakes Corporation will provide a major source of graphite for Britain's nuclear power development program, now being pushed by private industrial groups in collaboration with Britain's Atomic Energy Authority.

Sir Claude Gibb, chairman and managing director of C. A. Parsons & Co., Ltd., and chairman of A. Reyrolle & Co., Ltd., will serve as chairman and managing director of the new company.

Great Lakes Carbon will have four members on the board, including Robert B. Wittenberg, vice-president and general manager of its electrode division, who headed the negotiations for the United States company. The other three members are Great Lakes Carbon's chairman of the board Walter Gramm; its president George Skakel, jr., and its executive vice-president Joseph Solari.



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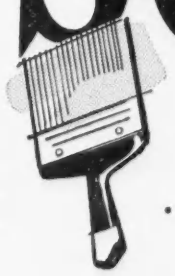

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SOVASOL 35 is widely used in the formulation of odorless alkyd-type flats, semi-gloss and certain enamel-type interior paints for trade sales goods, where odorless paint is desired.

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Rubber Stockpile Policies Will Continue Without Fee

The government's natural rubber stockpile rotation policies and procedures are to continue unchanged until there is evidence that natural rubber shortages are "imminent."

This course was decided upon last week by mobilization director Arthur S. Flemming in turning down recommendations of certain segments of the rubber industry that the stockpile rotation be spaced out to compensate for the longer delivery time now required because of the closing of the Suez Canal.

In rejecting any change in policies at this time, Mr. Flemming said that he was accepting the advice of the Departments of State, Commerce, Defense, and the Defense Materials Service.

At such time as shipping shortages appear which would create a shortage of natural rubber, he said, the government will consider a temporary postponement of rubber stockpile deliveries.

Fertilizers Dropping

—Continued from page 7

puts, particularly since World War II." the report noted. "As a result, some farmers may find it more profitable to increase production by using more fertilizer than by purchasing or renting more of the limited supply of cropland."

The report continued:—

"Available supplies reached an all-time high level this year. Wholesale prices reported for most nitrogenous fertilizers were lower than for the previous year. Some seasonal changes in prices of these materials occurred. They reflected an effort to encourage summer and fall movement, thus reducing the cost of storage for the manufacturer and relieving congestion in storage and transit.

Anhydrous Ammonia Reduction

"Early in the season, the wholesale price of anhydrous ammonia was $85 a ton. This was reduced to $72 for August but increased to $75 in October. This price is expected to continue until about the first of the year, at which time some increase can be expected. A reduction of $10 a ton was announced for sulfate of ammonia in May. Lower prices for imported Chilean nitrate of soda were announced in October.

"Consumption of plant nutrients is nearly 70 percent above the 1947-49 average but the rise has been much greater for nitrogen (N) and potash (K_2O) than for phosphate (P_2O_5). For 1955, the index of nitrogen consumption was 226, for potash 194, and for phosphate 125, with 1947-49 — 100. This reflects recognition of the higher yield response to nitrogen and potash and the differences in prices of the 3 principal nutrients.

"Although nitrogen costs more per pound than either of the other nutrients, response to higher applications has generally been greater, and the price per pound of nitrogen is now less relative to the price of the other nutrients than formerly.

"This changed relationship has been brought about by the increased use of high analysis nitrogen solutions for both direct application and for use in making mixed fertilizers, and by the expanded use of anhydrous ammonia. New developments in fertilizer technology have reduced the cost of these materials. The price of potash per pound has generally been materially lower than that of other nutrients because its source material is high in K_2O cotent.

"The favorable cost position of fertilizers relative to that of other production costs is expected to continue for the next few years. There are some indications that fertilizer may compete with other inputs for the farmers' available operating funds even more strongly than at present."

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Petroleum Derivatives

The outlook in crude oil prices has become decidedly firmer. In the Gulf area increased demand during December is expected to outstrip increased production by some 300,000 barrels. This will go a long way toward draining off the excessive stocks that have held prices down during the year. Meanwhile, a major producer has advanced the price it pays for California oil by some 20c. per barrel. While the government has not announced yet precisely what action it is going to take to alleviate the shortage of oil in Europe, an arrangement is known to be forthcoming. The emergency plan discussed a week ago is said to have been rejected in favor of a more solid arrangement. These developments have contributed considerable strength to the market here.

As reported by the major producers last week, solvents and diluents were still meeting seasonably active buying interest. Similarly, cokeoven supplies of xylol remained tight, and petroleum producers were enjoying an increment of sales, especially in the "immediate requirement" category. Benzol was moving well and showed good balance in both producing industries. Imports of this material were said to be falling off, partly perhaps because of the petroleum squeeze in Europe. Toluol was encountering good demand, but cokeoven producers said that supplies, though improved, were still long.

Active demand for liquified petroleum gases was reported from most sections of the country last week. Supplies are said to be adequate for the coming winter, and the shortage of tankcars, previously mentioned here, is not expected to be a major problem. The recently increased price of propane was firmly maintained, with butane also showing a firm undertone. Petroleum waxes were particularly active in the paper industry outlets and the foreign markets. Quotations, advanced October 1, were steady and unchanged.

PriceTrends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 2, 1955
105.71	105.71	105.71	104.32

For Current Prices see Page 9

Solvents and Diluents

Benzol—Production continued to move steadily in response to seasonally good demand. While imported material is being absorbed promptly, producers noted that the level of these imports declined in August and expect the September report to show further declines. As reported by the Bureau of Census, imports in August amounted to 6,185,918 gallons, as compared with 9,260,771 gallons in July. The cumulative total for the first eight months of 1956 was reported at 46,261,076 gallons. Exports of benzol also showed a decline, reaching 51,700 gallons in August, as against 106,211 gallons during the previous month.

Toluol—The pinch on European oil supplies has contributed a firm undertone to the export market, producers reported last week. An expansion in exports could contribute much to solving the inventory problem in the cokeoven industry, it was noted. While considerably improved since the steel strike, supply levels are still greater than a normal domestic market can absorb, and there is a constant threat that the record high level of steel production will worsen the situation. As previously, petroleum producers continued to run a good share of available toluol into high octane gasoline, a material in constantly increasing demand.

Exports of toluol in the month of August totaled 4,847,151 pounds, according to a report of the Bureau of the Census. This compares with a total of 9,575,544 pounds exported during the previous month. The cumulative total for the first eight months of the year was 40,963,518 pounds.

Xylol—All available coaltar production is moving promptly to consumers in response to seasonally brisk demand. Petroleum producers have been enjoying an increased business volume because of the high level of demand coupled with the close supply situation in the cokeoven industry. Quotations were firmly held last week at previous levels.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended November 17 totaled 280,221,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 281,903,000 barrels for the preceding week, this represents a decrease of 1,682,000 barrels, comprising an increase of 133,000 barrels in stocks of domestic crude and a decrease of 1,815,000 barrels in stocks of foreign crude.

LPG'S

Butane—Indian summer has persisted in the Los Angeles area, holding demand there somewhat below the normal seasonal level. Cold weather throughout the rest of the country has made for brisk buying interest. Prices were unchanged last week, but seasonal firmness was noted. Supplies are believed adequate for the coming winter. In some areas of the country transportation problems might be encountered in connection with a shortage of tankcars, but no serious delays are expected.

Propane—Quotations were firmly held at levels advanced ½c. at the beginning of the quarter. Demand throughout most of the country is described as seasonally brisk. Producers have filled all available tanks in order to meet the anticipated level of demand this Winter.

Waxes

Microcrystalline—This market is particularly strong in export demand and sales to the paper industry, producers said last week. Food packaging and other outlets were judged seasonally moderate. Price advances established in September and October brought the cost-price relationship into satisfactory ratio but firmness in crude oil, reflecting the Suez tieup, has added a firm undertone to wax quotations. While no advances are particularly contemplated, this firm undertone is said to have had a stimulating effect on buying interest.

Paraffin—Prices were firmly held at 7.10c. per pound for crude and 8.15c. per pound for fully refined. The former price represents an October 1 advance. Demand is still good in most outlets and is expected to hold up well through December. Supply levels are ample for all consumer requirements.

Miscellaneous

Crude Oil—Current reports of the industry for the week ended November 16 indicate an increase in crude oil production and an increase in crude runs. According to the A.P.I., the daily average output of crude (including lease condensate) was 7,159,000 barrels, an increase of 109,000 barrels from the preceding week. Daily average crude runs to stills of 7,965,000 barrels were 1,000 barrels above the preceding week, and 308,000 barrels above the week ended November 18, 1955. Runs of foreign crude amounted to 1,054,000 barrels daily, compared with 1,060,000 barrels in the preceding week. For the four-week period ending November 16, crude oil production averaged 7,047,000 barrels daily and crude runs to stills averaged 7,863,000 barrels daily, with runs of foreign crude averaging 1,072,000 barrels daily.

The market for crude oil was stronger in all areas last week. On the West Coast, a major company advanced the price it pays for crude by about 20c. per barrel. Demand for Southwestern crude oil is expected by some observers to show an increase of 500,000 barrels during December. Production increases should amount to only 200,000 barrels, thus enabling producers to dispose of a considerable quantity of excess supplies. This should have a firming effect on crude prices, which have been held back during the current year predominantly because of the heavy inventories.

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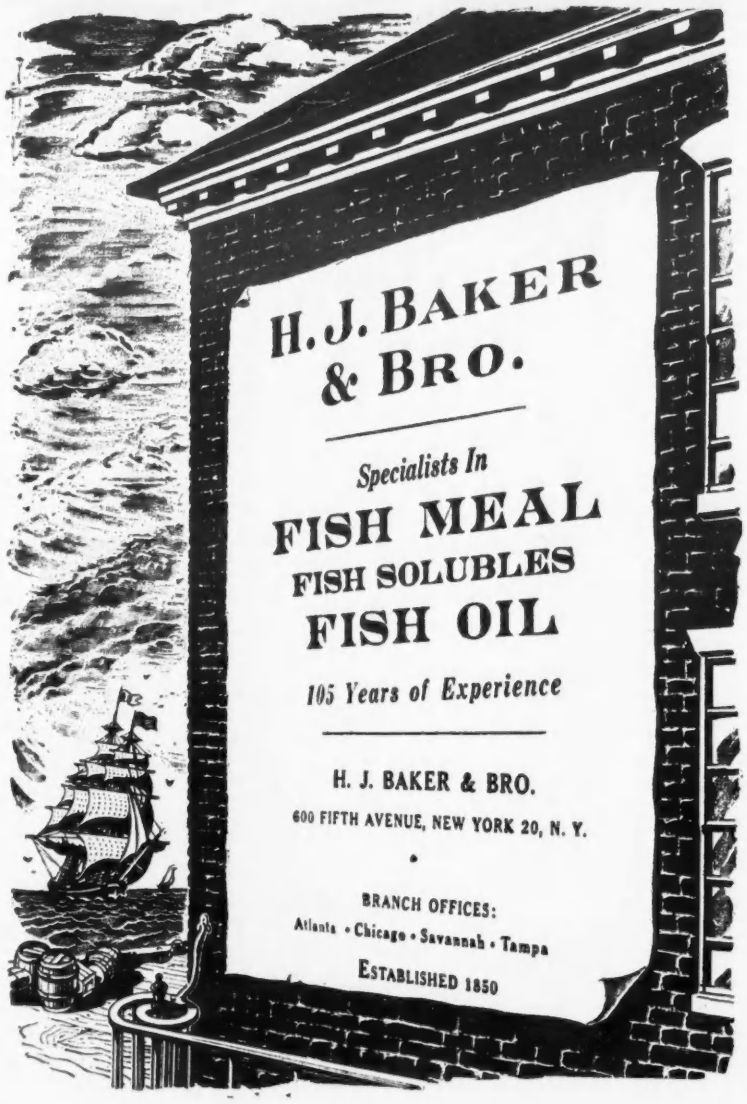

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Oils, Fats and Waxes

Trading in oils and fats last week continued quite active for export, while domestic business was spotty. Export interest continued for soybean oil and Spain purchased 10,000 tons of refined oil. Soybean and cottonseed oils closed stronger, and advanced fractionally. Peanut oil continued to advance with sales noted at another advance of 1 cent per pound. Corn was slightly higher. Crude coconut oil was firmer due to improved European interest. Copra was higher.

The castor oil market continued to move upwards due to the higher cost of replacements from abroad. Castor beans also were strong with offers for shipment scarce. Domestic castor oil grades were lifted 1 cent to 1½ cents per pound. Brazilian oil also advanced 1½ cents per pound.

Interest in tallow slackened for export, but market remained steady at the recent advance. Improved trading in greases took place at a fractional advance. Tighter supplies of oleo oil and oleo stearine resulted in sharp price advances for both materials. Lard was firm and higher.

Active European trading in drying oils at primary sources was reflected in oiticica and quotations were lifted sharply. Tung oil was unchanged, but steady due to recent European buying for shipment from the Argentine. Export interest coupled with higher flaxseed, created a firmer undertone in linseed oil and quotations were lifted fractionally. Improved European interest also stiffened crude menhaden oil and quotations were raised fractionally. This stiffened refined fish oil.

The recent reduction of fatty carnauba grades for shipment from Brazil kept the spot market unsettled and quotations were off another cent per pound, except yellows which were scarce and firmly held. Consumers continued to limit purchases to actual needs. Trading also was affected by the scarcity of crude beeswax, candelilla and Japan wax.

PriceTrends

Advanced

Acid, linseed, 3/10c. per lb.
Cocoa butter, 4c. per lb.
Copra, $5 per ton.
Greases, ¼c. per lb.
Lard, ¼c. per lb.
Oil, castor, dom., 1c. per lb.
No. 3, tech., 1½c. per lb.
Brazilian, No. 1, 1½c. per lb.
Coconut, crude, ½c. per lb.
Corn, crude, ¼c. per lb.
refd., ¼c. per lb.
Cottonseed, crude, ⅜c. per lb.
refd., ⅜c. per lb.
Linseed, 3/10c. per lb.
Menhaden, crude, ½c. per lb.
Oleo, 1c. per lb.
Palm, tankcars, 7/20c. per lb.
Peanut, crude, 1c. per lb.
refined, 1c. per lb.
Soybean, crude, ⅜c. per lb.
refd., ⅜c. per lb.
Oleo stearine, 2½c. per lb.

Reduced

Linseed meal, $1 per ton.
Wax, carnauba, chalky, 1c. per lb.
No. 3, crude, Ceara, 1c. per lb.
Parnahyba 1c. per lb.

Comparative Price Indexes

(100 = 1949 average)

Last week	Prev. week	Last month	Dec. 2, 1955
120.78	120.78	120.40	103.76

For Current Prices see Page 9

Vegetable Oils

Castor—Trend of this market continued upwards due to stronger beans and imported oil. Domestic grades were lifted 1c. per pound, except No. 3 technical which was raised 1½c. Brazilian oil also was higher and lifted 1½c. per pound. No. 1 was quoted at 22c. per pound, tankcars, New York, prompt. Consuming demand was fairly active for prompt needs.

Coconut—Crude was higher at 12c. per pound, tankcars, f.o.b. Pacific coast prompt shipment and 13¼c., New York, basis.

Corn—This market was firm and higher. Crude was sold at 14⅞c., tankcars, f.o.b. mills and 15c. asked. Refined was quoted at 18.59c. per pound, tankcars, New York, prompt.

Cottonseed—Futures backed and filled but closed practically unchanged last week. Liberal liquidation in December caused prices to drop sharply, but this was nullified later when shorts endeavored to cover and found offers scarce. Tenders on December delivery totaled 119 contracts and were finally absorbed. Trading in cash oil was reported light. Refined salad was higher at 18⅛c. per pound, tankcars, New York, prompt delivery. Crude oil was active and higher, with bids at 14½c. per pound, tankcars, Valley; 14⅜c., Lubbock; 14⅝c., Waco and 14⅝c. southeast.

Refined cottonseed oil disappearance in October totaled 2,285 tankcars, compared with 2,252 in September and 2,445 October last year. Disappearance during the first three months of the season amounted to 6,322 tankcars against 6,666 for the same end of October was 15,600 tankcars against 16,847 a year ago.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, November 30, follow:—

	Sales	High	Low	Close
		Cents per pound		
Dec.	528	16.74	16.05	16.53@16.56
Jan.	7	16.80	16.71	16.68@16.70
Mar.	786	16.93	16.43	16.83S
May	506	17.00	16.52	16.93S
July	245	16.93	16.50	16.91S
Sept.	35	16.43	15.98	16.38@16.40
Oct.	6	16.10	15.90	16.15@16.25
Dec. (1957)	29	16.00	15.60	15.88@15.94

Total sales and switches, 2,122 contracts.

Cottonseed crushed during October totaled 721,835 tons, compared with 526,375 in September and 707,751 in October last year. Crushings during August-October totaled 1,429,762, compared with 1,414,257 during same period last year.

Linseed—Higher flaxseed, combined with export interest in oil, created a firmer tone and prices advanced 3/10c. per pound. Raw oil was quoted at 14c. per pound, tankcars, Minneapolis, December forward delivery. Domestic business was reported light. Deliveries against former contracts continued in active request.

Flaxseed—Active demand and light offers boosted market 10c. per bushel.

Minneapolis—Crushers increased bids on cash flaxseed 10c. a bushel to $3.50, spot and to arrive. Minneapolis, but the advance failed to induce increase in offerings. Arrivals for the spot market totaled only 4 cars and to-arrive bookings amounted to only 9 cars and 11,000 bushels in truck lots as growers were apparently oblivious to demand. Receipts of flaxseed for all accounts totaled 165 cars, compared with 233 a year ago. Shipments amounted to 30 cars against 23 last year.

	Receipts		Shipments
	1956-57	1955-56	1955-56
Past week	297,000	407,750	54,000
Since Sept. 1	11,068,800	11,516,750	1,348,200

Oiticica—Offers were scarce and higher. Tankcars were advanced to 15½c. per pound, New York, prompt and later delivery. Drums were raised to 17c. to 17½c. per pound, depending upon quantity.

Olive—Trading was reported spotty, chiefly for fill-in requirements. Spanish oil was unchanged at $3.30 to $3.40 per gallon, drums, duty paid, spot, as to quantity. Spanish oil for shipment was unavailable as yet, and offers from Tunisia were temporarily suspended as shippers awaited the government new subsidy figure. Argentine oil was quoted at $74 to

Cottonseed Crush: October

Cottonseed received and crushed and production of cottonseed products during October and September, as compiled by Bureau of Census, follows:—

Cottonseed

	Oct.	Sept.
	Tons	
Receipts	1,572,928	1,273,839
Crushed	721,835	526,375
Stocks	1,959,273	1,108,180

Crude Oil

	Pounds	
Produced	241,749,000	165,478,000
Stocks	75,358,000	55,474,000

Cake and Meal

	Tons	
Produced	346,400	249,069
Stocks	170,814	140,916

Hulls

	Tons	
Produced	153,882	112,850
Stocks	56,190	55,322

Oils Fats and Waxes

$75 per 100 kilos, c. and f. New York, prompt shipment.

Palm—Trading was reported light. Market was steady, reflecting higher cost of replacements. Drums were held at 15½c. to 16½c. per pound, spot as to quantity. Tankcars were higher at 12.90c., New York, prompt delivery.

Peanut—Crude oil was higher with sales reported at 19c. per pound, tankcars, f.o.b. mills for prompt shipment. Refined was boosted to 22¾c., tankcars, New York, prompt.

Rapeseed—Active trading cleaned up offers at 18c. and market was advanced to 18½c. per pound, tankcars, New York, prompt and later delivery.

Soybean—Active business kept market strong and higher. Spain purchased 10,000 tons of refined oil in drums, for December-early January shipment. Domestic business was slow. Crude oil was bid at 14½c. per pound, tankcars, f.o.b. Decatur for December; 14⅜c., January, 14¼c.

Soybean Oil Futures

Sales and prices of crude soybean oil futures (new contract) in tankcars (60,000 pounds) on the New York Produce Exchange for the week ended Friday, November 30, follow:—

	Sales	High	Low	Close
		—— Cents per pound ——		
Mar.	4	13.82	13.50	13.96@13.99
May	20	13.65	13.26	13.65@13.70
July	28	13.51	12.69	13.43@13.47
Sept.	6	12.70	12.67	12.85@12.95

Total sales, 58 contracts.

February and 14⅛c. for March. Refined salad was raised to 17¼c. per pound, tankcars, as to seller, New York, prompt delivery.

Consumption of crude soybean oil in October totaled 5,142 tankcars (a new record) against 3,934 in September and 4,657, October, 1955. Visible oil supply at the end of October was estimated at 16,358 tankcars, compared with 4,657 a year ago.

Soybeans crushed during October—start of new crop season—totaled 27,928,000 bushels compared with 19,877,000 bushels in September and 25,387,000 bushels during October last year.

Soybean Crush: October

Soybeans received and crushed and production of soybean oil and meal during October and September, as compiled by the Bureau of Census, follows:—

Soybeans

	Oct.	Sept.
	—— Tons ——	
Receipts	2,562,429	841,261
Crushed	837,835	596,305
Stocks	2,340,340	615,746

Crude Oil

	—— Pounds ——	
Produced	301,802,000	221,302,000
Stocks	68,952,000	91,937,000

Cake and Meal

	—— Tons ——	
Produced	657,101	459,514
Stocks	57,240	111,263

Tung—While business was quiet, the market was steady, reflecting tight supplies here with offers held at 24c. per pound, tankcars, New York, prompt delivery. Drums were unchanged at 25½c. to 26c. per pound, depending upon quantity.

Miscellaneous

Castor Beans—Primary markets continued strong. Shipments were reported merely nominal, around $175 to $180 per ton, f.o.b. Brazilian port.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	—— Pounds ——	
	Beans	Oil
Last week		2,712,000
Previous week	250,050	1,330,000
Corresponding week, 1955	253,650	1,330,000
Total this year	40,549,650	72,323,000
Corresponding period, 1955	75,205,760	45,477,000

Cocoa Butter—Price trend continued upwards. Spot stocks were lifted to 69c. to 72c. per pound, according to quantity.

Copra—Shipments were stronger and lifted to $162.50 per ton, c.i.f. Pacific coast, prompt shipment. Trading here was reported slow, but active abroad.

Fats and Greases

Greases—This market was stronger and advanced sharply as a result of active demand for export. Choice white ranged from 8¾c. to 9c. per pound, tankcars, delivered, with business reported up to 9c. Yellow grease also was firmer, with sales at 7⅞c., and 7½c. asked, same basis.

Lard—Firm tone prevailed and quotations advanced fractionally. Cash lard was quoted at 14¼c. per pound, drums, Chicago.

The Department of Agriculture has announced that strength in the hog market permits stopping purchases of lard which began in early October. Purchases since buying began on October 11 total 21,552,000 pounds (20,052,000 pounds in 3-lb. tins and 1,500,000 pounds in 50-lb. tins).

Oleo Oil—Tight supply conditions further strengthened this market. Extra was

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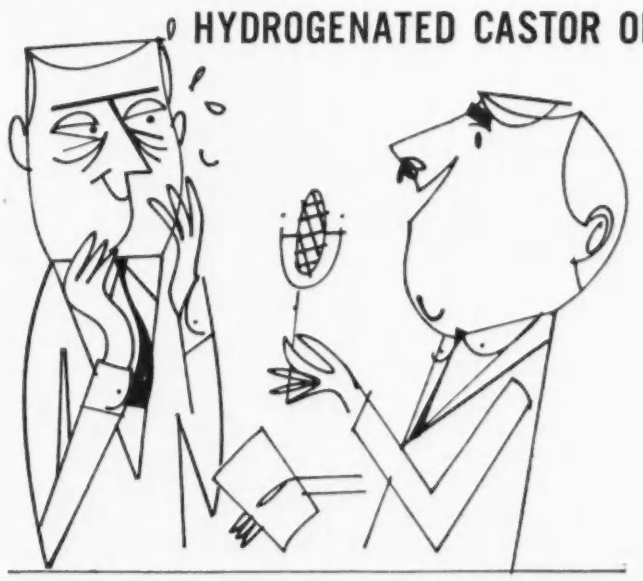

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Oils, Fats and Waxes

boosted to 20c. per pound, drums. Oleo stearine also was stronger and ranged from 16½c. to 17c. per pound, as to quantity, and seller.

Tallow—Buying interest slackened, but the market remained steady. Bleachable fancy was quoted at 8¼c. per pound, tankcars delivered; prime, 8c.; special, 7⅞c. and No. 1, 7¼c., same basis. Fancy was steady at 9⅞c. to 10c., drums, f.a.s.

Tallow Futures

Sales and prices of bleachable tallow futures in tankcars (60,000 pounds) on the New York Produce Exchange for the week ended Friday, November 30, follow:—

	Sales	High	Low	Close
		—Cents per pound—		
Dec.	4	8.24	8.20	8.20@8.25

Total sales, 4 contracts.

Fish Oils

Crude Menhaden—This market was stronger reflecting the improved buying interest for European account. Bids were higher with sellers holding at 9¼c. to 9⅜c. per pound, tankcars, works. Refined grades were unchanged but firmer with higher crude. Light pressed was maintained at 11c. per pound, tankcars, New York basis.

Cake and Meal

Linseed Meal—Resale meal weakened market. Prices off $1 per ton.

Minneapolis.—Meal declined $1 under pressure of resale offerings. Fair volume of trading was accomplished at the lower level. Shipments against existing contracts continued heavy, indicating improved mixer and consumer demand. Crushers quoted 36 percent protein extracted meal at $53 to $53.50 a ton for December shipment; $52 to $52.50 for January forward. Some resale meal was available at 50c. under crusher levels. Expeller meal, 32 percent protein held at $61.50 for December; $60.50 for January-March offerings extremely limited.

Shipments of linseed meal in pounds, were as followed:

	1956-57	1955-56
Past week	14,460,000	13,680,000
Since Sept. 1	192,360,000	226,681,000

Soybean Meal—Demand continued good and most mills were sold up for nearby shipment. Prices were firm. Forty-four percent was quoted at $47.50 per ton December-March; $48.50, April-September, bulk Decatur. Mississippi Valley meal was offered at $51 bulk f.o.b. mills.

Waxes

Consumers continued to operate in a hand to mouth manner last week. Recent reduction of $5 per ton in the floor price of fatty created an easier tone locally and crude No. 3 Ceara and Parnahyba dropped another 1 cent per pound for spot stocks. Chalky also was lower, while yellow continued scarce and strong. Scarcity of offers of crude beeswax continued to affect business and all grades were entirely nominal.

Koppers Appoints V. P., Metals Division Sales Mgr.

J. L. Tunstead, sales manager of the metal products division of Koppers Company, Pittsburgh, Pa., has been appointed a vice-president of the company. Simultaneously, Koppers has announced the appointment of Mr. Tunstead as director of sales and assistant manager of the marketing department.

To succeed Mr. Tunstead as sales manager, Koppers has appointed Harry P. Neher, jr., who has been assistant sales manager of the tar products division.

Food Fats, Oils

—Continued from page 7

more than last year. Crushings and exports may reach 410 million bushels compared with 350 million last year. If 30 million bushels are used on farms, this would leave a carryover of about 20 million bushels. The season's average farm price will be near the national support price of $2.15. Because of large supplies, only a moderate seasonal rise in soybean prices is expected in late winter or spring unless foreign demand becomes exceptionally great.

Cottonseed production in 1956 is placed at 5,431,000 tons, 10 percent less than last year and the smallest since 1950. Farm prices this crop year probably will average near the current levels of around $50 per ton, which is substantially above the support level.

The peanut crop is estimated at 1,489 million pounds, 5 percent less than last year. However, carry over stocks were up, so the total supply is nearly the same as last year. The supply is greater than required for edible and farm uses and a substantial quantity will be available for crushing, exports, and carryover stocks at the end of the year.

Flaxseed production in 1956 is estimated at 52 million bushels, compared with about 32 million bushels needed domestically for oil, seed and feed. Flaxseed prices to farmers have averaged near the support price to date in this crop year and probably will continue to do so.

The report had the following to say about tung oil:

"Domestic supplies of tung oil (production plus stocks) in the marketing year which began November 1, 1956, are estimated about 35 million pounds while domestic use may be about 50 million. However, domestic needs will be met as imports probably will again be large. Beginning stocks are the smallest since 1952 and it will be late November before domestic tung oil is available from the crushing mills. Prices could strengthen somewhat, temporarily, from the mid-November price of 23 cents per pound, raw, imported, New York but much depends upon the timing and volume of imports from Argentina and Paraguay."

Stein, Hall & Co. Appoints

Appointment of Emil Alter as head of its natural gums department at Long Island City, N. Y., has been announced by Stein Hall & Co., New York. Mr. Alter replaces Arthur Goldstein, recently named chief chemist of the firm's paper laboratory.

EQUIPONOMICS

BIRD CONTINUOUS CENTRIFUGE
18" x 28" S.S. 317

BLENDER, Ribbon Read 2000 lb cap 15 hp
FILTER Sweetland 2 All S.S. Top Drainage
FILTER, Niagara 35-20, Vert. S.S. Leaves
FLAKER, *New* Buflovak 6" Dx8" Face Comp

MIXERS-(2) J H DAY Heavy Duty 12 Gal
D.A SIGMA, Jack Geared Both Sides

REACTOR, 250 gal. 304 S.S Jack., agit.,
75 lb. Jack., 30 lbs. int. NEW

SPERRY 18" x 14" Filter Press Eye wash, 12 Chambers

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2—#12 Sweetland Filters, on 2" and 4" c.c., with monel covered leaves. Also, bronze leaves for #12, 24 steel rim, 12 monel rim, unused; 48 slightly used.
1—#2, 23 copper leaves, 1½" c.c.
2—Day 15 gal. Pony Mixers, m.d. S.S. cans.
2—Stainless Steel Hersey Rotary Dryers. 5'x26' and 6'x23'.
2—8'x125' Rotary Kilns.
1—#5057 Raymond High Side Roller Mill.
1—Day #30 Imperial Jack. Mixer, 75 gal.
9—Sperry 18"x18" Filter Presses, 11 ch.

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1—Allbr. Nell 4x9 Atmos Drum Dryers.
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8—Centrifugals, 12" 20" 26" 30" 40" & 48" Steel, Copper, Stainless & Rubber
6—Sharples No. 5A Stainless & #6.
2—De Laval Multi Clarifiers 300 & 301

FILTERS
Sparkler Stainless Filter Model 14-S-8.
#2 Sweetland Filter 12 Stainless covered leaves
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
Gen. Amer. 2'x1 Rotary Vac. Filter.
Sperry and Shriver 6" to 36" iron & wood Sweetland & Oliver Filters

KETTLES AND TANKS
Pfaudler 200 gal. Glass Lined Jack Kettle.
Dopp 350 gal. Agit. Jack Cl Vac Kettle.
2—Impreg. Units 30" & 36" dia. complete.
6—Jack. steel Kettles to 1000 gals.
2300 gal. vert. agit. Jack. Steel Kettle.
1—250 gal. Lead lined Kettle.
Stainless, alum., copper, Glass lined, lead lined and steel kettles and tanks

PULVERIZERS AND MILLS
2—Mikro Pulverizers #2TH & #2SI.
Pebble Mills 24"x30", 30"x30", 30"x34", 30"x42", 4'x5' Also jar mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1—#00 Raymond Mill, 30 HP complete.
2—#0000 Raymond Mills.
Sturtevant #00 Swing Sledge Mill, 3 HP.
Schutz-O'Neill #1 & 20" Pulverizers.
Williams #3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters Lab & up.
Jeffrey 18"x18" single Roll Crusher
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40"
1—Monarch 9"x24" Steel Roller Mill 3 pr. high. Also 7½x20, 4 Roll.
Bouchin 18"x30" 4 Roll Granite Stone Mills.
2—U.S & Premier 1½ H.P Colloid Mills.

MIXERS, SIFTERS & SCREENS
Day Imperial 75 & 150 gal. Jack. Mixers.
Lancaster 6' dia. Vert. Mixer 25 HP
Kent 3 HP. continuous dry mixer.
Baker Perkins double arm Mixers, 100 & 50 gals. Also single arm Mixers.
Blystone 3000# horiz. spiral mixer.
Day Brighton 20 gal. Change Can Mixers.
Read 50 & 100 gal. double arm mixers.
Read 80 qt. vert. mixer, 3 speed.
Tyler 3'x5' Vibratory 2 deck Screen.
10—Dry Powder Mixers, 50 to 3,000#.
3—Day 8, 15 & 40 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 3 HP.
6—Lead and Paste Mixers to 150 gals.

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3—Stokes and Day Powder Fillers.
Filling Machines & Labelers.
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3916—Shriver 12" Press; 7 Bronze, 8 Lead Plates; 2 eyed with dia. pump.
3854-A1—Sperry Aluminum 18" Filter Press; 4 eyed.
4041 P5—Shriver 18" Aluminum Filter Press; 18 chamber; closed delivery; 2 eyed.
4388 D2—Shriver Cast Iron Pl. & Frame Filter Press 24"; 4 eye; closed del. ratchet closing.
4344 H1—Shriver Stainless 24" Filter Press; 21 chambers; 4 eye; cl. del.
4330—Sperry Stainless 24" Filter Press; 12 chamber; 4 eye; washing.
3927—Sperry Cast Iron 24" Filter Press; 14 chamber; closed delivery; 3 eyed.
4343 K23—Sperry Cast Iron 30" Plate & Frame Press.
4000 K10—Shriver 24" Wood Pl. & Fr. Press; 15 chamber; 2 eyed; cl. del.
3787 E 5—Shriver 30" C.I. 30 Chamber P.&F. O.D.
3935—Shriver 30" C.I. 24 chamber Press; 3 eyed.
3989 K1—Independent 32" Wood Pl. & Fr. 68 chambers; 2 eyed; cl. del.
4254—Shriver STEAM JACKETED 36" Filter Press; C.I. 29 chambers; Seco cl.
3103—Sperry 36" C.I. Type 41 P.&F. 34 chamber Press; 2 eye Cl. Del.
3673-L41—Sperry 36" Aluminum Filter Press 33 chambers; 4 eye with hydraulic closing pump and motor.
4352 A1—Shriver C.I. 42" P.&F. Filter Press; 4 eye; closed delivery.
3168—Sweetland Oliver Pressure Filter No. 2 12 leaves; 2" centers.
4054 E2—Oliver Sweetland Filter No. 2; lead lined with 12 copper leaves.
2535—Oliver United Sweetland Filter No. 7 with 41 copper leaves on 2" centers; plastic lined.
3317—Bird Young Rotary Vacuum Filter; 4' x 4'; Stainless Screens.

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1—Buflovak 2'x4' double drum Vacuum.
2—Buflovak bronze drum Flakers 48"x40", 48"x28".
1—Buflovak 6'x5'6" Monel single drum Flaker.
4—Stokes single door Vacuum Shelf with 8—44"x40" shelves.
3—Devine double door Vacuum Shelf 17 and 20—59"x78" shelves.
3—Stokes Rotary Vac 4'x20', 30"x8', 18"x42".
1—Devine Rotating Vacuum 5'x10'.
2—Louisville Rotary Steam Tube 38"x25', 6'x40'.
3—Rotary Dryers 4½'x50', 6'x40', 6'x60'.

MIXERS
2—Baker Perkins 100 and 50 gal., 316 S.S.. Sigma Blades.
2—Day "Imperial" double arm 75 gals., power tilt.
5—Day "Cincinnatus" double arm 250 and 100 gals.
5—Steel jacketed Powder 50, 225 and 350 cu. ft.
1—Struthers-Wells 6'x9', 304 S.S. Rotating, jacketed.
1—Robinson 48"x7'6" long, 304 S.S. jacketed Powder, 90 cu. ft.
1—4' dia., 304 S.S. Conical Blender, 3 HP motor.

MILLS
1—Patterson NEW 6'x8' Porcelain lined Mill 50 HP motor.
3—Abbe Paterson 6'x8' unlined Ball Mills.
3—Abbe 5'x6', 4'x5', 3'x3½' Silex lined Pebble Mills.
3—Mikro Pulverizer Bantam and #2TH.
1—National 6"x12" Two-Roll Mill, motor driven.
7—Jeffrey Hammermills 20"x12", 15"x8", motor driven, NEW.

CENTRIFUGES
2—Sharples C-27, C-20 Super-D-Hydrators 316 S.S.
1—Sharples PY-14 Super-D-Canter, 304 S.S.
5—Bird 32"x50". 316 S.S. solid bowl, continuous, fume tight, 60 HP TEFC motors, New 1953.
2—Bird 18"x28", 24"x38" Stainless Steel, Continuous, Solid Bowl.
2—Tolhurst 40" Suspended Steel Perforated 15 HP XP motors.
1—Bird 40" Suspended rubber covered, imperforate basket.
2—Bird 40" Suspended 347 S.S. perforated basket, TEFC motor.
1—AT&M 36" center-slung, rubber covered, perforated basket.
1—Fletcher 30" center slung 304 S.S., Perforated basket.

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2—500 gal. 347 S.S. jacketed, agitated Reactors 300# int. pressure, 75# jacket pressure.
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1—Glascote 1400 gal. glass lined, jacketed, agitated Reactor 30# internal 40# jacket.
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1—3500 gal. 304 S.S. Horizontal Tank 5'6" dia. x 16' long.
3—Unused 2500 gal. Vertical rubber lined Tanks 7'x9'.
3—12,000 gal. Aluminum Tanks 10'6" dia. x 20' high.
1—10,000 gal. Aluminum Tank 10'x16', ½" shell, 25# W.P.
3—10'x40', 10'x30', 8'6"x25' Steel Horizontal Storage Tanks.
10—Kellogg Admiralty Tubes 2700, 2200 and 1800 sq. ft.
2—Struthers-Wells 536 sq. ft. Heat Exchangers 304 S.S.
1—Struthers-Wells 4'6" dia. x 16' high, 316 S.S. single effect Evaporator, 375 sq. ft. Calandria.

FILTERS
1—Oliver 8'x10' Monel Rotary Vacuum.
1—Eimco 18"x12", 316 S.S. Rotary Vacuum.
2—Feinc 3'x1', 316 S.S. Rotary Vacuum with vacuum and receiving Tanks.
1—Feinc 5'x3' Monel Rotary Vacuum String.
1—Oliver 5'3"x8' Steel Rotary Vacuum, totally enclosed.
1—Niagara 230-32 Pressure Filter, 230 sq. ft., 304 S.S.
2—#3 Sweetland Filters 304 S.S., 12-25" dia. leaves. 75 sq. ft.
2—#12 Sweetland Filters 36 leaves, 4" centers, 500 sq. ft.
4—Shriver 36"x36", 30"x30", c.i. Filter Presses, P&F, washing.

MISCELLANEOUS
4—Orville Simpson Rotex Sifters 60"x120", 40"x84".
6—Robinson, Sprout Waldron, 304 S.S. Sifter, 40"x84" single deck.
7—Stokes DD2, DS3, B2, "R" and "F" Tablet Presses.
1—Stokes #21J, 304 S.S. Granulating Mixer, NEW.
10—Nash Vacuum Pumps H7, H6, H5, L5, L4, TS7, #4, #2, AL-572.
2—Stokes #412G, 412B Vacuum Pumps, motor driven.
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1—1000 gallon horizontal closed tank.

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3—Colton 17 TF tube filler, closers & crimpers.

1—250 gallon vacuum pan.

3—Purecel 73 sq. ft. filters.

1—Baker Perkins 2¼ gal. jktd. double arm mixer.

1—Abbe Lenart 55 gallon mixer.

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1—300 gal. T304 St. St. Tank, ¼".

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2—Hills-McCanna K3M-2F Two Feed Metering Pumps, 3" x 3" and 5" x 3".

2—Lawrence T316 St. St. Sump Pumps, 5" x 4", 200 GPM.

1—Shriver 24" x 24" Filter Press, 15 ch.

1—Blaw-Knox K-15-600 Gas Cleaner, ASME 600# Pr.

1—Ozark-Mahoning Submerged Combustion Evaporator, 2,800.00 BTU/hr., type 316 St. St., with 1150 gal. T316 Evaporator Tank, 26" dia. x 62' T316 Stack, Air Blower and Gas Pump with motors, T316 Burners, controls, etc.

FROM CLOSED BAKERY

1—Mikro Pulverizer #3TH.

7—7 bbl. Dough Mixers.

4—5 bbl. Dough Mixers.

11—100 gal. Beater Mixers, Jacketed.

7—50 gal. Beater Mixers, Jacketed.

1—50 gal. Baker Perkins Double Shaft Beater Mixer, 5 HP.

1—30 gal. Hottman double shaft ribbon mixer with high speed knives, 25 HP.

1—Two Roll Saw Tooth Crusher, 8" x 18" long.

2—Spencer Turbo Compressors 350 cfm @ 32 oz.

Dextran and Alcohol Equipment from Syrup and Sugar plant

2—Horiz. Oval Stainless Steel Closed Tanks, 2000 gal. & 2500 gal.

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1—Carter & Nansen design Copper Bubble Cap Alcohol Still 36" diameter x 35 plates, with preheater and condenser. (To produce 200 gallons of 95% by vol. alcohol from aqueous feed containing 50% alcohol.)

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2 J. H. Day Giant #18 heavy duty, sigma blades, 12 gal. capacity, steam-jacketed, geared on both sides with screw tilt.
Abbe Lab Mass & Paint, bowl 13"x9"x13" deep, overlapping blades, like new.
Baker Perkins #15 universal, direct motor drive.
W & P, 100 gal., sigma blade, tilt bracket type with air cylinders, gear driven thru D O James speed reducers, 25 HP AC motors and starting equipment, steel jacketed.
Day Paragon, 50 gal., on steel legs, motor driven agitator.
3000 lb. Hex Mixer and handy handling Conveyor.
Readco Brake Lining Mixer, 150 gal. holding capicity, sigma blade.
80 qt. Reed Vertical, 3 speed, 1 HP, MD.
Banbury's, #3, 3A, 9 & 11, all with motor drives.

DRYERS

Buflovak, 24"x36", atmospheric twin drum, complete with auxiliaries, 3 HP motor drive, stainless steel vapor head hood, ¾ HP splash feed drive, stainless steel Roll-Over Type Conveyors, stainless steel elevator with 1 3 HP motor drive.

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Model W-30-H-SP, Buffalo, like new.

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Stokes Models E, F, T, R, G4.
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Stokes, RB2, RD3, DD2, DDS2.
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3824S-12—Pfaudler Glass Lined Jacketed Agitated Reactor; 12" x 12".
3824S-14—Pfaudler Glass Lined Jacketed Agitated Reactor; 36" x 36".
4339 C14—Pfaudler 500 Gal. Glass Lined Jktd. Reactors.
3673 L9—Pfaudler Glass Lined Jktd. Reactor; 16" x 28".
3670—Steel Reactor 4' x 4' heated with copper coil unit.
3944 B2—Steel Jacketed and Agitated Reactor; 315 Gal.; 44" x 48".
3168—Stainless 500 Gal. Jacketed Reactor; 6' dia. x 30" straight side.
3168 D7—Dopploy Jacketed Reactor; 40" dia.; 80 Gal.
3434—Dopp 650 Gal. Cast Iron Full Jktd. Agitated Reactor; 80" x 67".
3994 K5—Monel Reactor 785 gal. 5' x 5'; Jktd.; Agtd.
3934 C41—Steel Reactor; 950 Gal. 5' x 5'6"; agitated; coil heated.
4326 A1-2—Blaw Knox Stainless Reactors; welded; Jacketed Agitated; Sizes 7'6" x 7'6"; 8' x 7'6".
R4 503—Lead Lined Reactor; 1000 Gal. 4' x 6'; Jktd. ASME 50 PSI.
R4-500—Lead Lined Reactor; 1850 Gal. 6'6" x 6'6"; Jacketed and agitated 10 HP motor.
3799V-1—Lancaster Stainless Lined Rotary Reactor; Jktd.; 50" x 17'4" 300 PSI Internal.
3870M-2—Mojonnier Stainless Vacuum Pan 3' x 10'.
3434—Dopp 650 Gal. Cast Iron Jacketed and Agitated Reactor.
R4-530—Stainless Resin Kettle; 500 Gal. with Condenser and agitator.
3934 C8—Bethlehem Reactor 1400 Gal. Steam Coils Cast in shell.
R4 505—Devine 1500 Gal. Vertical Nitrating Kettle; 6' x 8'6"; Jktd.
3598—2600 Gal. Steel Jktd. Agitated Pressure Vessel; 8' x 7'.
4429 C1-2—Two 5000 Gal. Stainless Steel Mixing Tanks; 10' x 9'6" heavy gauge dished heads; with Stainless Agitators, gear reduction with 40 HP motors.

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Ammonia Compressors: Cyclops with 40 HP motor; 8—York Models D-8 & E-1 10"x7½", 8"x6", 6"x6", 5"x5" & 4"x4" with 7½ to 25 HP motors.

Air Conditioners: Surface Combustion Kathabar Dehumidifiers, Size 500 B.L.T. & 250 B.L.T.

Reactors—Kettles: 8—Pfaudler 50 to 350 gal. Glass Lined Jacketed Agitated Reactors; 60 & 150 gal. Glass Lined Vacuum Receivers; 200 gal. Monel Jacketed Agitated Reactor; 15—25 to 200 gal. Stainless Steel Jacketed Kettles; 2—400 & 300 Stainless Steel Stills, full vacuum; 400 gal. Lasti-Glass Lined Jacketed Kettle; 5—2'x12' Lasti-Glass Lined Absorption Columns; 750 gal. Steel Closed Jacketed Kettle; 21—500 gal. Harris Steel Closed Jacketed Kettles.

Centrifugals: 40" Bird, solid steel basket, 30/7½ HP motor; 7—Model 6900 & 6080 Stainless Steel Podbielniaks with 5 & 7½ HP motors; Model 6110 Podbielniak SS Laboratory with 2 HP motor.

Dryers: 5—Stokes Vacuum Shelf Dryers with 44"x40" Steam Heated Shelves; 1—Stokes Laboratory Vacuum 2 Shelf Dryer; 2—Precision Stainless Steel 2 Truck Dryers electrically heated; 4—National Research Model V-10-D Vacuum Diffusion Units.

Condensers: 5—Ansonia & Vulcan, 60 to 200 sq. ft. Stainless Steel; Cyclops Pipe Cooler; 3—Elliott & Ingersoll-Rand Three-Stage Steam Ejectors.

Also: Filter Presses; Vial & Bottle Washers; Jones Cartoning Machines; Conveyors; Trucks; 25—Glass Lined, Rubber Lined & Steel Tanks, 535 to 20,000 Gal.; 20—Vacuum Pumps, 15 to 300 cfm; 45—Stainless Steel Centrifugal Pumps—5 to 100 gpm; 80—Steel Centrifugal Pumps—5 to 750 gpm; Laboratory Equipment and fixtures; Recorders & Controllers; Fans; Blowers; Agitators; Electric Motors; Scales Speed Reducers Cabinets; Shelving; Benches; Fittings & many other items too numerous to mention.

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1—Sparkler Type 316 Stainless Steel Filter, Model 33S17.

1—Sparkler Rubber lined Filter Model #18D8.

2—Allsop Type 316 Stainless Steel Filter, Size SD 12 WR-20.

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4—Sperry Cast Iron 24"x24", 4 eye closed delivery, washing type Filter Press, 35 chambers each.

10—Sweetland #12 Filters, 72 Stainless Steel Leaves.

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1—Republic Stainless Steel Filter, 15 chambers.

2—Ertel Stainless Steel Filters 12", 12 chambers.

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1—Raymond High Side 6-roll Mill, Model 6669, with 200 HP motor, complete.

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1—Readco 50 gallon double arm Sigma Blade Mixer.

5—Baker Perkins 100 gallon Sigma Blade, Jacketed Mixers.

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6—Stokes Model F Tablet Machines.

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1—Stokes DDS 2 Tablet Machine with 7½ HP Variable Speed Motor Drive.

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1—Vulcan Steel Bubble Cap Column, 24"x30', 20 trays, ASME (New).

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2—Alco Admiraly Heat Exchanger 1700 sq. ft. ea.

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1—Vulcan Steel Bubble Cap Column 42"x30' with 20 trays (New).

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1—Leader Stainless Steel Jacketed Reactor, 2000 gallons, ASME.

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1—New Nash Vacuum Pump Type AL-572.
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1—Stedman Disintegrator size 40-6.
1—Abbe Ball Mill, 36"x42" Buhrstone lined.
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1—Patterson Ball Mill, 42x36, jacketed.
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4—New Heat Exc. 60' with Cupro Nickel Tubes.
1—Sparkler Stainless Filter Model 33-S-9.
3—2500 gal. Pfaudler G/L Tanks & S/S Agitators.
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4147 C9-10—Two Smidth Tube Mills 5'5" x 20'; V belt drive.
4147 C3-6—Four Gates Tube Mills; 5' x 22'.
3655 W2—Gruendler Supermaster No. 1 Hammer Mill; 15 HP.
4082 A1—Mikro Pulverizer Model 2 S1 Bronze Chamber; PD.
3324 E2—Mikro No. 4 F Pulverizer; 15" x 24".
McA1501—Mikro No. 2 Type SCB chamber 7" x 11½"; arr. for motor drive.
1001 N1—Williams Model NF Hammer Mill; 25" x 14"; requires 60 HP.
3429 A7—Williams Hammer Mill 36" x 18"; requires 60 HP.
3429 A-5-6—Williams Hammer Mill No. 4 18" x 48" requires 60 HP.
4147 C14—Williams No. 6 Hammer Mill; 42" x 48"; V belt.
3769—Jay Bee Model 2U Hammer Mill; 10¾" x 14" requires 30 HP.
3429 A8—Gruendler Pulverizer 12" x 48" requires 150 HP motor.
3192 A1—Grundler Pulverizer No. 3 chamber 8" x 16".
3429 A9—Gump Bar Nun No. 40 Hammer Mill; 12" 40"; requires 60 HP.
3545—Jay Bee Model A4 chamber 12" x 18" with 25 HP motor.

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2—Stokes Model "R" Tablet Machines, variable speed drive w/3 H.P. motors.
2—Stokes "BB-2" Rotary Tablet Machines.
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2—#12 Sweetland Filters, 36 monel leaves on 4" centers.
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1—Steel jack. Kettle 1000 gals.
3—Day & Ross 15-50 gal. Pony Mixers.
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1—Day 5 x 12 Lab. Roller Mill.
1—Allbright Nell 4' x 9' Double Drum Dryer.
2—Patterson 4' x 5' and 5' x 6' Pebble Mills.
5—Rotex Screens 20" x 48" to 40" x 84".
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CRUSHERS—JAW—6x12 Cedar Rapids, 20x4 Farrel, 14x29 Acme, 15x24 Traylor.

ROTARY DRYERS—12"x22', 3'x20', 39"x21', 44"x25', 5'x40', 6x40.

BRIQUETTING MACHINE — Komarek Greaves—16"x10" w/mixer & drive.

FORK TRUCK — 2000# Hyster gas pneumatics.

FILTER PRESSES—Shriver 7" Lead w/Lead Diaphragm Pump & 12"x12" p&f. C.I.

LAWLER COMPANY

LAWLER PLACE METUCHEN, N. J.
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Synthetic Organic Imports To Be Reported by Census

Bureau of Census announced that it has been requested to prepare a report on imports of synthetic organic chemicals, excluding imports of coaltar products, which are dutiable at an ad valorem or compound rate of duty for the fiscal years 1954, 1955 and 1956.

The report will be available for purchase from the bureau at a price not yet determined. The requested report is to provide (1) a listing of the chemical name of the organic chemical, the country of origin, and when possible, (2) the quantity, appraised value, and invoice value of the chemicals.

Drug Purchase

—Cont nued from page 3

attention of officials they explained that they had no intention of violating the patent rights of owners, and it was agreed that if patent owners notified the general counsel of GSA that certain products called for in bids were subject to patent infringement, GSA would void the bids of infringers.

The drugs named in the current invitation for bids include several patented items, and are:—Pyrimethamine tablets; Chloramphenicol capsules; oxytetracycline capsules; sulfaguanadine tablets; trisulfapyrimidine tablets; diaminophenylsulfone tablets; carbarsone tablets.

Dr. Bambach said that bids from foreign firms, including those now pirating United States inventions, will be considered on the same basis as those from domestic companies. Thus, he added, the United States government continues to allow itself to be placed in the paradoxical position of granting patents to inventors, and at the same time using money from taxpayers to purchase products from foreign firms violating those same patents.

He said that he was attempting to bring about correction of the defective government policy in this field.

Weeks Reveals

—Continued from page 4

their contribution to the prosperity and security of the world."

The crisis in the Middle East and the upheavals for freedom in Hungary and other satellite nations highpoint "the immediate and compelling needs for the presence of American businessmen in every part of the world," declared Johnson & Johnson's overseas director, Robert J. Dixson.

Mr. Dixson advocated an international insurance program with all nations involved participating under the World Bank to stimulate world business and world business security.

His plan would cover old as well as new investments, expropriation at market value, assure convertibility of currency, devaluation on current accounts, and loss or damge to property, including trademarks, by reason of war, revolution, riot or other contingency.

"We must have the maturity to accept the cruel rebuff of some recent events and still press forward on the path of expanded world trade and friendly ties with nations who accept or can be persuaded to accept our ideals of freedom and human dignity," Mr. Dixson said.

"To state the point bluntly, despite increasing uncertainties, the need for expanded American private investment abroad is greater today than ever before. Both good business and good patriotism directs that the American investor and businessman, the most potent forces of peace, expand, not curtail, our commitments," said Mr. Dixon. "Such is essential to the broader aspects of our foreign policy."

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This opening presents an unlimited opportunity for advancement. Location S. E. Penna.

Reply Box 202, Oil, Paint & Drug Reporter, 30 Church St., N.Y. 7, N.Y., giving complete resume of experience, salary requirements and other pertinent Data. All replies kept strictly confidential.

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Steel, vertical, open head; can be in poor condition.
Minimum capacity 10,000 gal. MUST BE CHEAP!

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USI Takes Option

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use both of these chemicals in the process. This will be the first semi-continuous process for making zirconium.

The process is based on new technics developed at the Cincinnati research division of National Distillers and can also be applied to the production of other metals such as titanium, thorium, beryllium and hafnium. A number of patent applications on thte various processes are pending.

One of the big advantages of the USI process is the lower initial investment necessary compared to that needed for producing zirconium and similar metals by the conventional Kroll process, USI said, adding that one of the reasons for this is that sodium is a liquid in the process and not only is easier to handle, but also gives a finished product of a higher purity than magnesium.

The USI production begins under a contract signed May 1 with the Atomic Energy Commission. Under the terms of this agreement, USI will supply the government with 5 million pounds of reactor grade zirconium sponge over a five-year period. This portion represents the lion's share of an 11 million pound AEC procurement program. The balance of the USI output will be offered to industrial users of zirconium.

Metal & Thermit

—Continued from page 3

construction work will soon begin, will include an office building, a warehouse building and a steam plant, as well as the production buildings and several minor structures.

The plant will produce organotin chemicals for the plastics, textile, pharmaceutical and other industries. The products will include a complete line of color stabilizers for polyvinyl chloride resins and other plastics formulations.

Oils, Fats Output, Use: October

Statistices on production and consumption of oils and fats, including raw materials and primary products except oil have been compiled by the Bureau of Census, Department of Commerce, for the month of October. The data are as follows:—

Primary Products Except Oil

	Tons		
	Production	Shipments & Transfer	Stocks Oct. 31
Cottonseed cake and meal	346,400	316,502	170,814
hulls	153,882	153,014	56,190
linters[1]			
First cut	50,202	37,799	69,362
Second cut	152,809	120,637	110,468
Mill run	12,973	9,702	13,105
Total	215,984	168,138	192,955
hull fiber	1,225	1,109	662
motes and grabbots	1,458	1,148	2,425
Soybean cake and meal	657,101	711,124	57,240
Flour	12,607	12,280	2,065
Lecithin	1,481	N.A.	1,273
Other cake and meal—			
Castor bean	918	1,011	25
Copra	12,461	11,519	2,233
Corn germ	14,041	14,032	558
Flaxseed	74,460	70,424	15,816
Olive	[2]	[3]	[3]
Peanut[3]	N.A.	N.A.	N.A.
Tung nut	[2]	[3]	[3]
Other	3,104	4,073	5,319

Raw Materials at Mills

	Tons		
	Receipts	Crushings	Stocks Oct. 31
Castor beans	1,938	1,743	1,535
Copra	31,781	35,504	12,967
Corn germ	29,952	29,309	1,556
Cottonseed	1,572,928	721,825	1,959,273
Flaxseed	187,433	112,566	138,466
Olives	[2]	[3]	[3]
Peanuts[4]	N.A.	N.A.	N.A.
Soybeans	2,562,429	837,835	2,340,340
Tung nuts	[2]	[3]	[3]
Other	13,230	4,547	18,825

N.A. Not Available.
[1] Average gross bale weight in pounds for October production:—Total, 619.9; first cut, 607.2; second cut, 625.6; and mill run, 602.9.
[2] Data collected by Agricultural Marketing Service, Department of Agriculture.
[3] Included in "other" to avoid disclosure of figures for individual companies.
[4] Data on peanuts collected by Agricultural Marketing Service, Department of Agriculture, and include reports by peanut shellers.
[5] Included in "other" to avoid disclosure of figures for individual companies.

Chemical Industry's

—Continued from page 3

much tighter money and higher interest rates, principally because of more extensive use of retained earnings and the competitive fear of being left behind technologically.

Rates No Deterrent

Those companies which do borrow for expansion may not be deterred by high interest rates due to the competitive need to maintain top efficiency through the use of modern equipment, processes, and technics.

"The confidence in the continuing growth in the rate of potential demand is widely shared, and while some capital outlays may be deferred or delayed to early next year because of possible shortages of some critical items and materials, the maintenance of a high level of outlay expenditures seems assured for some time to come. It's also worth pointing out that this vast chemical plant expansion is taking place when tax amortization certificates for chemical projects have just about disappeared from the scene, indicating the high level of business confidence."

Looking beyond this year and into the first half of 1957, Dr. Greene added:

"Short-term projections of chemical production indicate an average output index for January-June, 1957, of about 182 (1947-49=100), almost 3 percent higher than the anticipated record index of 177 for 1956.

"A continuation of chemical manufacturers' current sales volume, presently close to $2.1 billion monthly, should result in about $12.5 billion for the first half of 1957. This may be lifted to a higher level, however, by price inflation due to the heavy pressures of a narrowing price-cost squeeze."

Saline Water

—Continued from page 5

plastic materials with specially designed properties. Mr. Jenkins said that departmental studies conducted through the Bjorksten Research Laboratories of Madison, Wis., have shown that plastic materials are feasible, provided transparent materials which could withstand at least three years of outdoor weathering were available. A large number of materials were tested, but none was found to be satisfactory, it was said.

New Materials Available

Recently, however, several new types of materials have become available in experimental quantities from E. I. duPont de Nemours & Co. For example, it is reported that a new type of transparent film of tetrafluorethylene resin will withstand an estimated ten years of outdoor exposures.

A solar still design envisioning a heavy, black plastic base or evaporation pan, with a transparent plastic film supported only by slightly increased air pressure—without rigid supports—has been proposed by duPont. The sun's energy is trapped between the plastic base and the transparent canopy.

Under an agreement signed recently between the Department of the Interior and duPont, the company will provide materials for construction of prototype stills approximately two feet wide and 100 feet long, for experimental tests on salt water conversion. The stills will be constructed and operated by the government.

In addition, the company will supply to the department or a few of its cooperators which the department may designate, small samples of the film for small-scale laboratory tests on solar stills. Cooperators include the governments of Spain, Morocco, and Algeria.

Another means of reducing costs of simple solar stills is being developed for the Department by Dr. George O. G. Loef of Denver, Colorado. A roof-type still built directly on the ground, eliminating some framing and insulation, is expected to operate also at night from heat stored in the ground during the day. An experimental still covering about one-tenth of an acre is being prepared for testing at a seashore location, for studying night radiation from this new still.

It is intended also to construct and operate models of the duPont and Telkes stills at the seashore location.

Fluorspar Reserves

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Illinois-Kentucky district are profitably working such ores.

About 61 percent of the 22.5 million tons is measured and indicated ore; the remainder is inferred ore. This estimate compares with the Geological Survey's previous estimates of 17.5 million tons in 1954 and 15 million tons in 1952, and with the Geological Survey-Bureau of Mines estimate of 14.2 million tons in 1945.

The more recent figures are larger because better reserve information is available and substantial quantities of ore have been found in the last few years. An additional 12 million tons of lower grade material containing 15 to 35 percent CaF_2 is estimated.

The higher grade reserves, containing at least 35 percent CaF_2 or equivalent in fluorspar and sulfides, could support mine production for thirty years at the 1951-55 rate of about 750,000 tons of crude ore annually. Additional ore probably will be discovered in sufficient quantity to support this rate of production for at least another decade beyond the thirty-year period. New ore is being located especially in Illinois, Kentucky, Colorado, and Montana, where sizable areas still are not adequately explored. Large reserves have been found in four districts in Idaho, Montana, and Utah that ten years ago were undiscovered or had only small known reserves.

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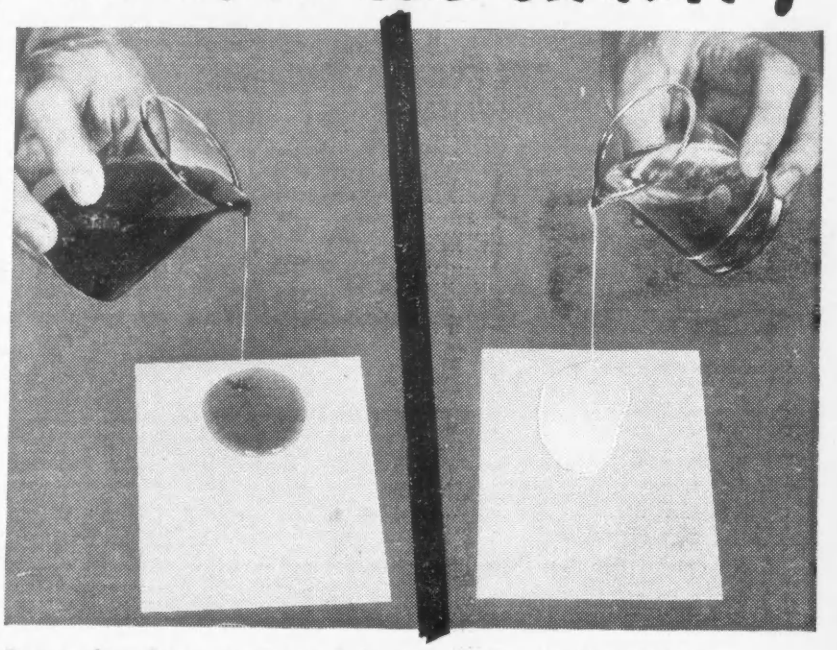

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METROLIN #6	Ideal for calcicoater flats. Long storage life without settling. Recommended as calcicoater oil because of characteristic linseed superiority over blended low cost oils.	40%	Mineral Spirits	firm gel*	0-1	6-8	7.1 lbs.	100% linseed base	Good flow; no running or sagging
METROLIN #209	Comparable to quality alkyds but lower in cost. For (1) washable flats (2) primer - sealer coatings (3) bodying agent for enamels (4) cement coatings.	30% N.V.**	Mineral Spirits	Z-Z$_4$*	1-2	9-11	7.1 lbs.	100% linseed oil/resin copolymer	Good flow; no running or sagging

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